```
Linear regression analysis
> linearmod2<-lm(data=test.20, SBPZAGH~temp_DDI[1,])</pre>
> summary(linearmod2)
Call:
lm(formula = SBPZAGH ~ temp_DDI[1, ], data = test.20)
Residuals:
    Min
                10 Median
                                   30
                                            Max
-3.9745 - 0.7713 - 0.1219 0.7329 4.0410
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
                                0.07291
                                            2.346
                                                      0.0194 *
(Intercept)
                  0.17103
                                                      0.0306 *
                  0.16800
                                0.07743
                                            2.170
temp_DDI[1, ]
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1
Residual standard error: 1.18 on 418 degrees of freedom
  (352 observations deleted due to missingness)
Multiple R-squared: 0.01114,
                                       Adjusted R-squared:
F-statistic: 4.707 on 1 and 418 DF, p-value: 0.0306
> keep<-which(test.20$n_agents>0)
> linearmod2<-lm(data=test.20, SBPZAGH[keep]~temp DDI[1,keep])</pre>
> summary(linearmod2)
lm(formula = SBPZAGH[keep] ~ temp DDI[1, keep], data = test.20)
Residuals:
            1Q Median
                          30
                                 Max
    Min
-3.9745 -0.7713 -0.1219 0.7329 4.0410
Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)
                 0.17103
                          0.07291
                                   2.346
                                          0.0194 *
                                  2.170 0.0306 *
temp_DDI[1, keep] 0.16800
                          0.07743
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.18 on 418 degrees of freedom
  (47 observations deleted due to missingness)
Multiple R-squared: 0.01114, Adjusted R-squared: 0.00877
F-statistic: 4.707 on 1 and 418 DF, p-value: 0.0306
> n0<-which(test.20$n agents==0)</pre>
> summary(test.20$SBPZAGH[n0])
   Min. 1st Qu. Median
                        Mean 3rd Qu.
                                              NA's
                                       Max.
-2.1800 -0.4850 0.3400 0.2712 0.8200 3.9700
                                               42
> summary(test.20$SBPZAGH[n0], na.rm=TRUE)
   Min. 1st Qu. Median
                        Mean 3rd Qu.
                                              NA's
                                       Max.
-2.1800 -0.4850 0.3400 0.2712 0.8200 3.9700
                                               42
> sd(test.20$SBPZAGH[n0])
[1] NA
> sd(test.20$SBPZAGH[n0],na.rm=TRUE)
[1] 1.01236
> mean(test.20$SBPZAGH[n0],na.rm=TRUE)
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[1] 0.2711864

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> linearmod2<-lm(data=test.20, SBPZAGH~temp_DDI[2,])</pre>
> summary(linearmod2)
Call:
lm(formula = SBPZAGH ~ temp_DDI[2, ], data = test.20)
Residuals:
    Min
             10 Median
                              30
                                     Max
-3.4603 - 0.9884 - 0.0795 0.9850 3.6819
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
                                     3.680 0.000383 ***
                            0.2013
                0.7410
(Intercept)
                            0.3416 -0.502 0.616775
temp_DDI[2, ] -0.1715
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1
Residual standard error: 1.378 on 97 degrees of freedom
  (673 observations deleted due to missingness)
Multiple R-squared: 0.002592, Adjusted R-squared:
                                                       -0.007691
F-statistic: 0.252 on 1 and 97 DF, p-value: 0.6168
> linearmod2<-lm(data=test.20, SBPZAGH~temp_DDI[3,])</pre>
> summary(linearmod2)
Call:
lm(formula = SBPZAGH ~ temp_DDI[3, ], data = test.20)
Residuals:
    Min
             10 Median
                              30
                                     Max
-3.1660 -0.4547 -0.0370 0.6361 2.3257
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
               1.9178
                            0.3719
                                     5.157
                                             5.6e-05 ***
(Intercept)
temp_DDI[3, ] -0.6522
                            0.8257 - 0.790
                                               0.439
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1
Residual standard error: 1.35 on 19 degrees of freedom
  (751 observations deleted due to missingness)
Multiple R-squared: 0.0318,
                               Adjusted R-squared: -0.01916
F-statistic: 0.624 on 1 and 19 DF, p-value: 0.4393
Diastolic
> linearmod2<-lm(data=test.20, DBPZAGH~temp_DDI[1,])</pre>
> summary(linearmod2)
lm(formula = DBPZAGH ~ temp DDI[1, ], data = test.20)
Residuals:
```

```
Min
              1Q Median
                              30
                                     Max
-2.6531 -0.7226 -0.0866 0.6738 4.8222
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)
               0.24697
                          0.06472 3.816 0.000156 ***
temp_DDI[1, ] 0.09112
                          0.06874
                                   1.325 0.185742
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.047 on 418 degrees of freedom
  (352 observations deleted due to missingness)
Multiple R-squared: 0.004185, Adjusted R-squared: 0.001803
F-statistic: 1.757 on 1 and 418 DF, p-value: 0.1857
> linearmod2<-lm(data=test.20, DBPZAGH~temp_DDI[2,])</pre>
> summary(linearmod2)
Call:
lm(formula = DBPZAGH ~ temp_DDI[2, ], data = test.20)
Residuals:
    Min
              10 Median
                              30
                                     Max
-2.7016 -0.8409 -0.0411 0.7612 4.6994
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
               0.43213
                          0.18432
                                   2.345
(Intercept)
temp_DDI[2, ] 0.05898
                          0.31266
                                    0.189
                                            0.8508
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.261 on 97 degrees of freedom
  (673 observations deleted due to missingness)
Multiple R-squared: 0.0003667, Adjusted R-squared: -0.009939
F-statistic: 0.03559 on 1 and 97 DF, p-value: 0.8508
> linearmod2<-lm(data=test.20, DBPZAGH~temp_DDI[3,])</pre>
> summary(linearmod2)
lm(formula = DBPZAGH ~ temp_DDI[3, ], data = test.20)
Residuals:
             1Q Median
-2.4126 -0.9584 -0.1104 0.8620 3.8420
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
                          0.4095 3.489 0.00246 **
               1.4287
(Intercept)
temp_DDI[3, ] -1.2171
                           0.9093 -1.338 0.19654
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.487 on 19 degrees of freedom
  (751 observations deleted due to missingness)
Multiple R-squared: 0.08617, Adjusted R-squared:
F-statistic: 1.792 on 1 and 19 DF, p-value: 0.1965
using DDI 1, and n_agents vs SBP z
> linearmod2<-lm(data=test.20, SBPZAGH~temp_DDI[1,]+n_agents)</pre>
> summary(linearmod2)
lm(formula = SBPZAGH ~ temp_DDI[1, ] + n_agents, data = test.20)
```

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Residuals:
             1Q Median
    Min
                             3Q
                                    Max
-3.8591 -0.6941 -0.0636 0.6930 3.8335
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
             -0.31712
                          0.12611 -2.515
                                           0.0123 *
(Intercept)
temp_DDI[1, ] 0.06476
                          0.07870
                                   0.823
                                            0.4111
n agents
               0.39944
                          0.08520
                                   4.688 3.74e-06 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.151 on 417 degrees of freedom
  (352 observations deleted due to missingness)
Multiple R-squared: 0.06065, Adjusted R-squared: 0.05614
F-statistic: 13.46 on 2 and 417 DF, p-value: 2.162e-06
> linearmod2<-lm(data=test.20,</pre>
SBPZAGH~temp_DDI[1,]+n_agents+BMIPCTAG+Upc+CKDONST+male1fe0+GHT0TINC+gfr+mean_compliance)
> summary(linearmod2)
lm(formula = SBPZAGH ~ temp DDI[1, ] + n agents + BMIPCTAG +
    Upc + CKDONST + male1fe0 + GHTOTINC + gfr + mean_compliance,
     data = test.20)
Residuals:
    Min
              1Q Median
                             30
-3.5782 -0.7055 -0.0526 0.6506 3.4666
Coefficients:
                     Estimate Std. Error t value Pr(>|t|)
                -0.062840
                          0.421722 -0.149 0.881621
(Intercept)
temp_DDI[1, ]
                0.024016
                           0.076582
                                      0.314 0.753989
                                      3.780 0.000181 ***
n agents
                0.316550
                           0.083751
BMIPCTAG
                0.004903
                           0.001821
                                       2.692 0.007388 **
                0.122170
                           0.026688
                                      4.578 6.27e-06 ***
Upc
CKDONST
                 0.017735
                            0.011644
                                       1.523 0.128521
male1fe0
                0.002623
                           0.111254
                                      0.024 0.981203
GHTOTINC
                -0.025886
                           0.015974
                                     -1.620 0.105907
                -0.003689
                           0.002496 -1.478 0.140220
gfr
mean compliance -0.085837
                           0.355204 -0.242 0.809170
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.104 on 403 degrees of freedom
  (359 observations deleted due to missingness)
Multiple R-squared: 0.1475, Adjusted R-squared: 0.1285
F-statistic: 7.747 on 9 and 403 DF, p-value: 1.536e-10
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