```
data(BP1)

x<-BP1[,-1]

y<-BP1[,1]

library(mctest)

mctest(x, y, type=c("b"), na.rm = TRUE,
             Inter=TRUE, method=NULL, corr=TRUE, detr=0.01, red=0.5,
             theil=0.5, cn=30, vif=5, tol=0.1, conf=0.95, cvif=10,
             leamer=0.1, all=FALSE)

eigprop(x)
```

```
Overall Multicollinearity Diagnostics

                       MC Results detection
Determinant |X'X|:         0.0307         0
Farrar Chi-Square:        56.2967         1
Red Indicator:             0.4424         0
Sum of Lambda Inverse:    22.9943         0
Theil's Method:           -1.4343         0
Condition Number:        201.4958         1

1 --> COLLINEARITY is detected by the test
0 --> COLLINEARITY is not detected by the test



=================================


All Individual Multicollinearity Diagnostics Result

            VIF    TOL      Wi       Fi Leamer     CVIF Klein
Age      1.7628 0.5673  2.1359   2.8605 0.7532 -0.0039     0
Weight   8.4170 0.1188 20.7677  27.8139 0.3447 -0.0188     0
BSA      5.3288 0.1877 12.1205  16.2328 0.4332 -0.0119     0
Duration 1.2373 0.8082  0.6645   0.8899 0.8990 -0.0028     0
Pulse    4.4136 0.2266  9.5580  12.8009 0.4760 -0.0099     0
Stress   1.8348 0.5450  2.3376   3.1307 0.7382 -0.0041     0

1 --> COLLINEARITY is detected by the test
0 --> COLLINEARITY is not detected by the test

Duration , Pulse , Stress , coefficient(s) are non-significant may be due
to multicollinearity

R-square of y on all x: 0.9962

* use method argument to check which regressors may be the reason of colli
nearity
=================================
```

```
Call:
eigprop(x = x)

  Eigenvalues         CI Intercept     Age Weight     BSA Duration  Pulse Stre
ss
1      6.6558     1.0000     0.0000  0.0000 0.0000  0.0000   0.0016 0.0000 0.00
30
2      0.2679     4.9842     0.0002  0.0001 0.0000  0.0001   0.0000 0.0000 0.55
12
3      0.0714     9.6536     0.0005  0.0004 0.0001  0.0003   0.9285 0.0002 0.05
24
4      0.0027    50.0668     0.1027  0.0890 0.0052  0.1698   0.0007 0.0040 0.02
54
5      0.0011    77.3965     0.3723  0.7775 0.0092  0.0113   0.0259 0.0050 0.03
91
6      0.0009    83.7514     0.2900  0.0381 0.0061  0.0736   0.0432 0.4376 0.14
33
7      0.0002   201.4958     0.2343  0.0949 0.9794  0.7450   0.0000 0.5532 0.18
56

==============================
Row 5==> Age, proportion 0.777502 >= 0.50
Row 7==> Weight, proportion 0.979397 >= 0.50
Row 7==> BSA, proportion 0.744958 >= 0.50
Row 3==> Duration, proportion 0.928489 >= 0.50
Row 7==> Pulse, proportion 0.553205 >= 0.50
Row 2==> Stress, proportion 0.551209 >= 0.50
```