

Table S 1- test of linearity between continuous variables of the logistic regression analysis, regarding CAVI

| Models | | High CAVI | | | |
|----------------------------------|-------------|------------------|---------|------------------|---------|
| | | Right | | Left | |
| | | Beta coefficient | P value | Beta coefficient | P value |
| SBP+SBP*Ln(SBP) | SBP | -0.232 | 0.76 | -0.507 | 0.45 |
| | SBP*Ln(SBP) | 0.045 | 0.72 | 0.088 | 0.43 |
| SBP+age+ SBP*Ln(SBP)+Age*Ln(age) | SBP | -0.836 | 0.37 | -1.217 | 0.14 |
| | Age | 2.856 | 0.20 | 2.018 | 0.30 |
| | SBP*Ln(SBP) | 0.146 | 0.36 | 0.206 | 0.14 |
| | Age*Ln(age) | -0.523 | 0.22 | -0.361 | 0.33 |
| DBP+DBP*Ln(DBP) | DBP | -0.038 | 0.97 | 1.199 | 0.31 |
| | DBP*Ln(DBP) | 0.012 | 0.95 | -0.221 | 0.31 |
| DBP+age+Ln(DBP)+Ln(age) | DBP | -2.22 | 0.14 | -0.178 | 0.89 |
| | Age | 3.479 | 0.13 | 2.040 | 0.29 |
| | DBP*Ln(DBP) | 0.419 | 0.13 | 0.033 | 0.89 |
| | Age*Ln(age) | -0.63 | 0.15 | -0.367 | 0.32 |
| MBP+MBP*Ln(SBP) | MBP | -0.424 | 0.69 | 0.056 | 0.95 |
| | MBP*Ln(DBP) | 0.082 | 0.67 | -0.007 | 0.96 |
| MBP+age+Ln(MBP)+Ln(age) | MBP | -2.203 | 0.12 | -1.302 | 0.29 |
| | Age | 3.194 | 0.16 | 2.134 | 0.27 |
| | MBP*Ln(MBP) | 0.401 | 0.11 | 0.233 | 0.29 |
| | Age*Ln(age) | -0.585 | 0.18 | -0.384 | 0.30 |

Table S 2-test of linearity between continuous variables of the logistic regression analysis, regarding CAVI₀

| Models | | High CAVI ₀ | | | |
|----------------------------------|-------------|------------------------|---------|------------------|---------|
| | | Right | | Left | |
| | | Beta coefficient | P value | Beta coefficient | P value |
| SBP+SBP*Ln(SBP) | SBP | -0.445 | 0.592 | 0.018 | 0.981 |
| | SBP*Ln(SBP) | 0.0825 | 0.557 | 0.003 | 0.981 |
| SBP+age+ SBP*Ln(SBP)+Age*Ln(age) | SBP | -1.107 | 0.279 | -0.631 | 0.539 |
| | Age | 2.953 | 0.194 | 2.144 | 0.392 |
| | SBP*Ln(SBP) | 0.193 | 0.263 | 0.112 | 0.518 |
| | Age*Ln(age) | -0.543 | 0.213 | -0.381 | 0.427 |
| DBP+DBP*Ln(DBP) | DBP | -0.258 | 0.817 | 1.046 | 0.401 |
| | DBP*Ln(DBP) | 0.050 | 0.809 | -0.193 | 0.402 |
| DBP+age+Ln(DBP)+Ln(age) | DBP | -2.326 | 0.108 | -0.626 | 0.681 |
| | Age | 3.707 | 0.117 | 2.507 | 0.319 |
| | DBP*Ln(DBP) | 0.433 | 0.106 | 0.116 | 0.680 |
| | Age*Ln(age) | -0.685 | 0.130 | -0.450 | 0.350 |
| MBP+MBP*Ln(SBP) | MBP | -0.424 | 0.670 | 0.454 | 0.690 |
| | MBP*Ln(DBP) | 0.082 | 0.670 | -0.076 | 0.707 |
| MBP+age+Ln(MBP)+Ln(age) | MBP | -2.437 | 0.083 | -0.908 | 0.518 |
| | Age | 3.393 | 0.144 | 2.387 | 0.340 |
| | MBP*Ln(MBP) | 0.441 | 0.079 | 0.166 | 0.507 |
| | Age*Ln(age) | -0.625 | 0.160 | -0.427 | 0.372 |

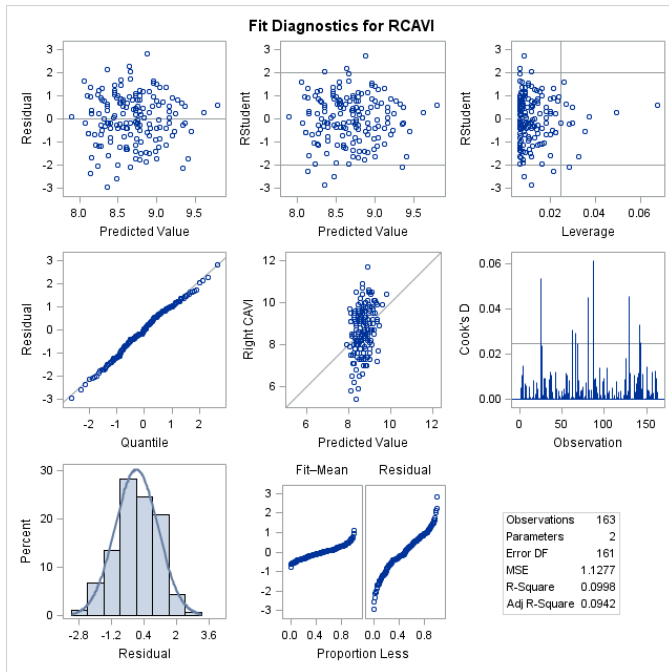


Figure S 1- Fit statistics and assumption checking for the Linear regression, dependent variable CAVI and independent variable SBP

Table S 3- test of autocorrelation for the Linear regression, dependent variable CAVI and independent variable SBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.8125 | 0.1145 | 0.8855 |

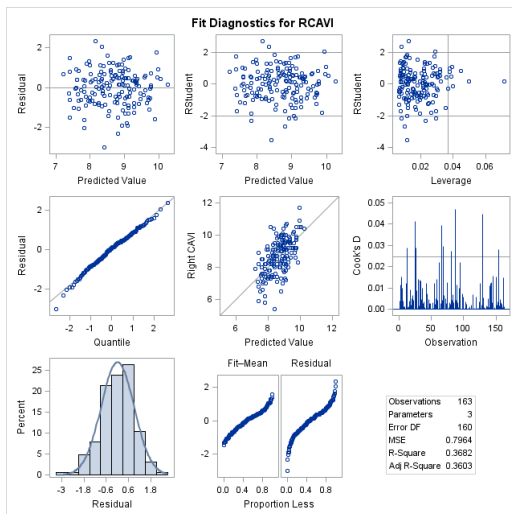


Figure S 2- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI and independent variable SBP and age

Table S 4- test of autocorrelation for the Linear regression, dependent variable CAVI and independent variable SBP and age

| Durbin-Watson Statistics | | | |
|--------------------------|--------|---------|---------|
| Order | DW | Pr < DW | Pr > DW |
| 1 | 2.0082 | 0.5166 | 0.4834 |

Table S 5- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI as the dependent variable and SBP and Age as independent ones

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 3.04569 | 0.64226 | 4.74 | <.0001 | . | 0 |
| SBP | 0.01276 | 0.00414 | 3.09 | 0.0024 | 0.95140 | 1.05109 |
| Age | 0.06303 | 0.00764 | 8.25 | <.0001 | 0.95140 | 1.05109 |

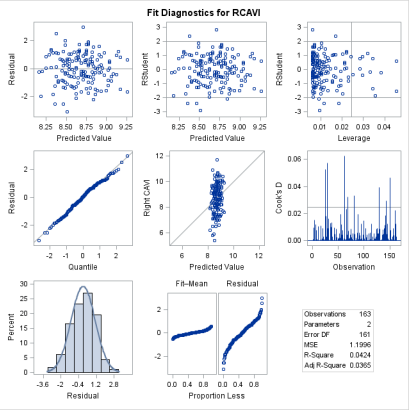


Figure S 3- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI and independent variable DBP

Table S 6- test of autocorrelation for the Linear regression, dependent variable Right CAVI and independent variable DBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.8595 | 0.1830 | 0.8170 |

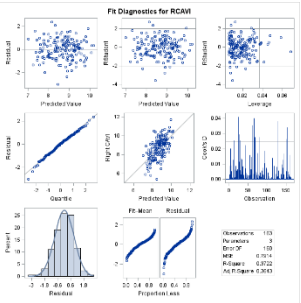


Figure S 4- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI and independent variable DBP and age

Table S 7- test of autocorrelation for the Linear regression, dependent variable Right CAVI and independent variable DBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.0753 | 0.6799 | 0.3201 |

Table S 8- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI as the dependent variable and DBP and Age as independent ones

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|---------------------------|-----------------------|----------------|--------------------|------------------|---------------------------|
| Intercept | 2.61829 | 0.71897 | 3.64 | 0.0004 | . | 0 |
| DBP | 0.02187 | 0.00672 | 3.25 | 0.0014 | 0.99999 | 1.00001 |
| AGE | 0.06814 | 0.00743 | 9.17 | <.0001 | 0.99999 | 1.00001 |

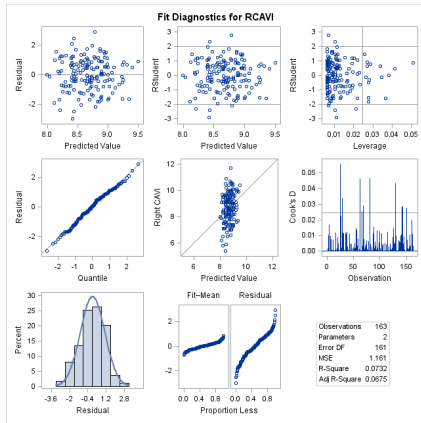


Figure S 5- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI and independent variable MBP

Table S 9- test of autocorrelation for the Linear regression, dependent variable Right CAVI and independent variable MBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.8461 | 0.1614 | 0.8386 |

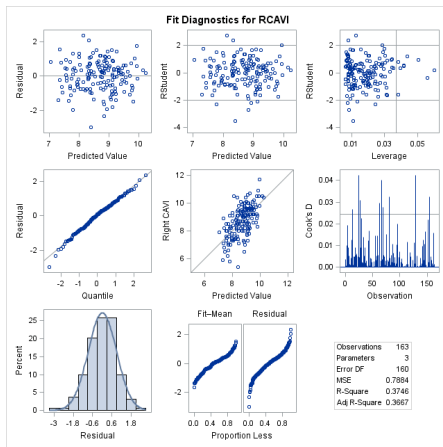


Figure S 6- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI and independent variable MBP and age

Table S 10- test of autocorrelation for the Linear regression, dependent variable Right CAVI and independent variable MBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.0473 | 0.6139 | 0.3861 |

Table S 11- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI as the dependent variable and MBP and Age as independent ones, MBP=Mean Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|---------------------------|-----------------------|----------------|--------------------|------------------|---------------------------|
| Intercept | 2.64996 | 0.69958 | 3.79 | 0.0002 | . | 0 |
| MBP | 0.01954 | 0.00583 | 3.35 | 0.0010 | 0.98830 | 1.01183 |
| AGE | 0.06552 | 0.00746 | 8.78 | <.0001 | 0.98830 | 1.01183 |

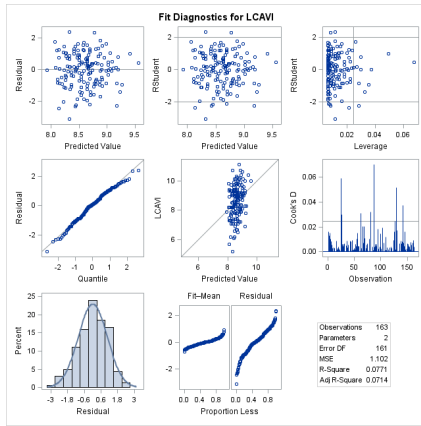


Figure S 7- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable SBP

Table S 12- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable SBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.9306 | 0.3280 | 0.6720 |

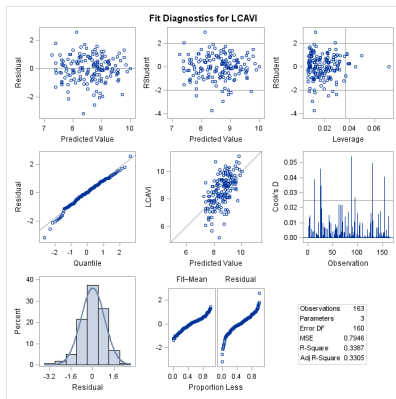


Figure S 8- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable SBP and age

Table S 13- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable SBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.0944 | 0.7235 | 0.2765 |

Table S 14- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVI as the dependent variable and SBP and Age as independent ones

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|---------------------------|-----------------------|----------------|--------------------|------------------|---------------------------|
| Intercept | 3.45041 | 0.64153 | 5.38 | <.0001 | . | 0 |
| SBP | 0.01016 | 0.00413 | 2.46 | 0.0150 | 0.95140 | 1.05109 |
| AGE | 0.06074 | 0.00764 | 7.96 | <.0001 | 0.95140 | 1.05109 |

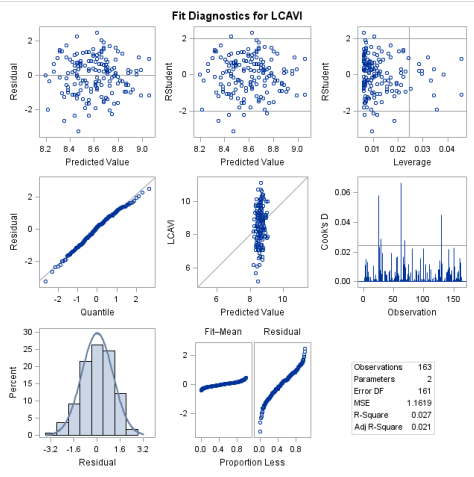


Figure S 9- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable DBP

Table S 15- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable DBP

| Durbin-Watson Statistics | | | | |
|--------------------------|--------|---------|---------|--|
| Order | DW | Pr < DW | Pr > DW | |
| 1 | 1.9706 | 0.4234 | 0.5766 | |

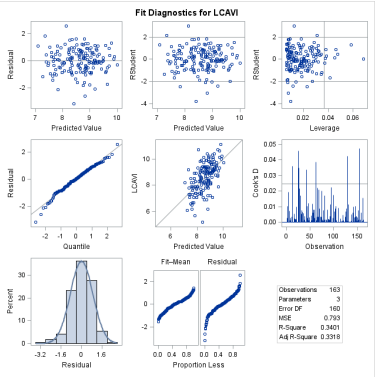


Figure S 10- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable DBP and age

Table S 16- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable DBP and age

| Durbin-Watson Statistics | | | | |
|--------------------------|--------|---------|---------|--|
| Order | DW | Pr < DW | Pr > DW | |
| 1 | 2.1483 | 0.8249 | 0.1751 | |

Table S 17- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVI as the dependent variable and DBP and Age as independent ones

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 3.14337 | 0.71969 | 4.37 | <.0001 | . | 0 |
| DBP | 0.01700 | 0.00672 | 2.53 | 0.0124 | 0.99999 | 1.00001 |
| AGE | 0.06482 | 0.00744 | 8.71 | <.0001 | 0.99999 | 1.00001 |

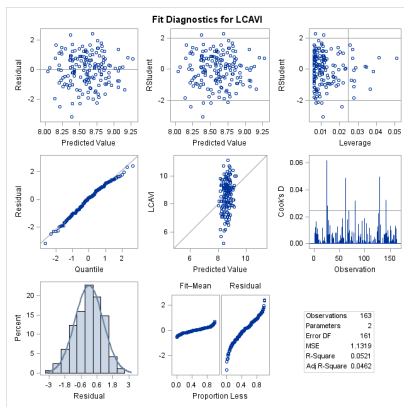


Figure S 11- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable MBP

Table S 18- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable MBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.9609 | 0.3998 | 0.6002 |

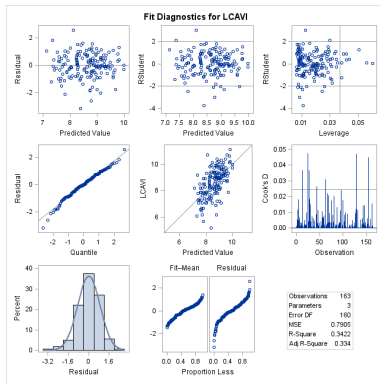


Figure S 12- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI and independent variable MBP and age

Table S 19- test of autocorrelation for the Linear regression, dependent variable Left CAVI and independent variable MBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.1261 | 0.7864 | 0.2136 |

Table S 20- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVI as the dependent variable and MBP and Age as independent ones

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|-----------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 3.15371 | 0.70049 | 4.50 | <.0001 | . | 0 |
| MBP | 0.01535 | 0.00583 | 2.63 | 0.0093 | 0.98830 | 1.01183 |
| AGE | 0.06276 | 0.00747 | 8.40 | <.0001 | 0.98830 | 1.01183 |

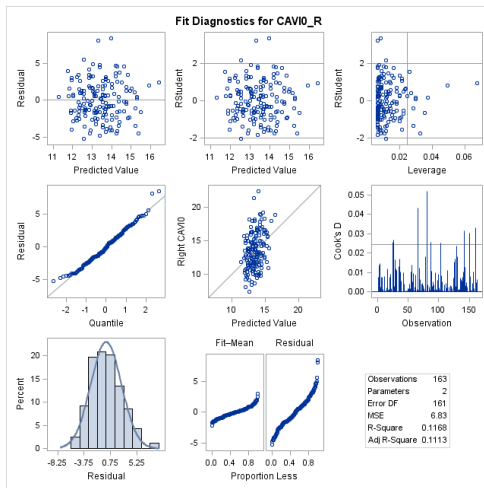


Figure S 13- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable SBP

Table S 21- test of autocorrelation for the Linear regression, dependent variable Right CAVI₀ and independent variable SBP

| Durbin-Watson Statistics | | | |
|--------------------------|--------|---------|---------|
| Order | DW | Pr < DW | Pr > DW |
| 1 | 1.8613 | 0.1869 | 0.8131 |

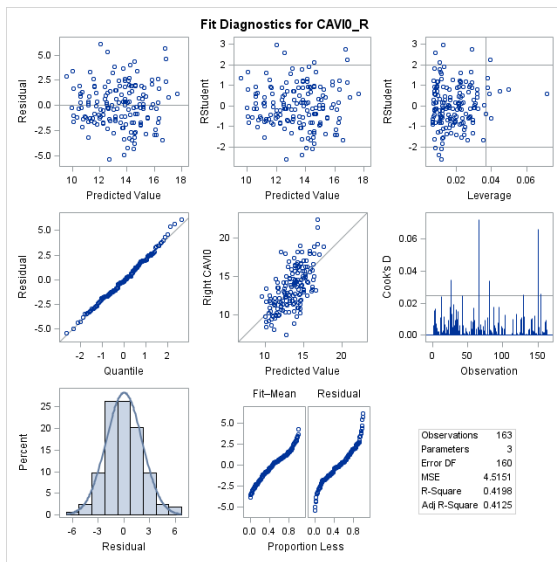


Figure S 14- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable SBP and age

Table S 22- test of autocorrelation for the Linear regression, dependent variable Right CAVI₀ and independent variable SBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.1264 | 0.7875 | 0.2125 |

Table S 23- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI₀ as the dependent variable and SBP and Age as independent ones, SBP=Systolic Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|-----------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | -1.57302 | 1.52925 | -1.03 | 0.3052 | . | 0 |
| SBP | 0.03468 | 0.00985 | 3.52 | 0.0006 | 0.95140 | 1.05109 |
| AGE | 0.16636 | 0.01820 | 9.14 | <.0001 | 0.95140 | 1.05109 |

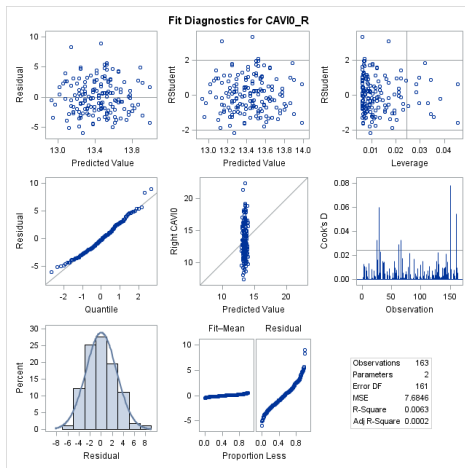


Figure S 15- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP

Table S 24- test of autocorrelation for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.8990 | 0.2575 | 0.7425 |

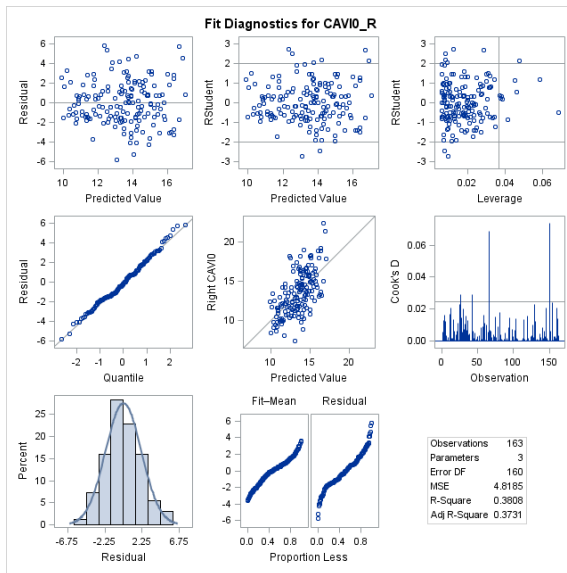


Figure S 16- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP and age

Table S 25- test of autocorrelation for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.1625 | 0.8475 | 0.1525 |

Table S 26- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI₀ as the dependent variable and DBP and Age as independent ones, DBP=Diastolic Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|-----------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 0.38898 | 1.77407 | 0.22 | 0.8267 | . | 0 |
| DBP | 0.02061 | 0.01658 | 1.24 | 0.2155 | 0.99999 | 1.00001 |
| AGE | 0.18041 | 0.01834 | 9.84 | <.0001 | 0.99999 | 1.00001 |

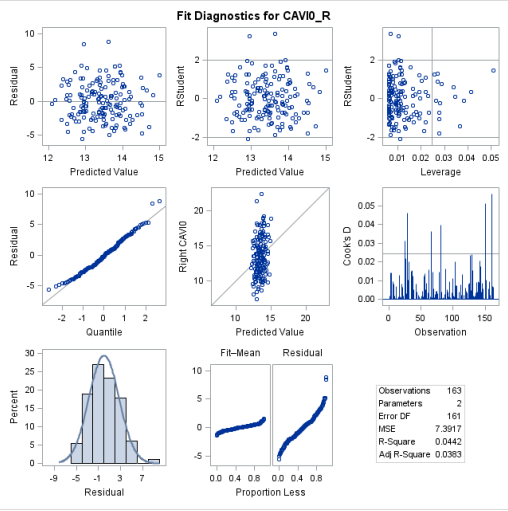


Figure S 17- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI0 and independent variable MBP

Table S 27- test of autocorrelation for the Linear regression, dependent variable Right CAVI0 and independent variable MBP

| Durbin-Watson Statistics | | | | |
|--------------------------|--------|---------|---------|--|
| Order | DW | Pr < DW | Pr > DW | |
| 1 | 1.8954 | 0.2506 | 0.7494 | |

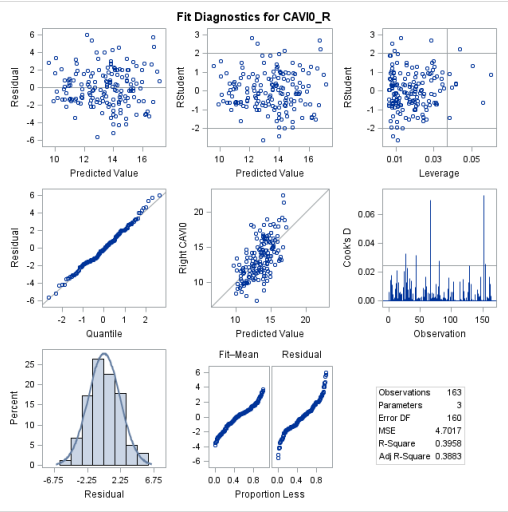


Figure S 18- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI0 and independent variable MBP and age

Table S 28- test of autocorrelation for the Linear regression, dependent variable Right CAVI₀ and independent variable MBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|--------------|-----------|-------------------|-------------------|
| 1 | 2.1564 | 0.8385 | 0.1615 |

Table S 29- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Right CAVI₀ as the dependent variable and MBP and Age as independent ones, MBP=Mean Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|---------------------------|-----------------------|----------------|--------------------|------------------|---------------------------|
| Intercept | -0.92004 | 1.70839 | -0.54 | 0.5910 | . | 0 |
| MBP | 0.03355 | 0.01423 | 2.36 | 0.0196 | 0.98830 | 1.01183 |
| AGE | 0.17584 | 0.01822 | 9.65 | <.0001 | 0.98830 | 1.01183 |

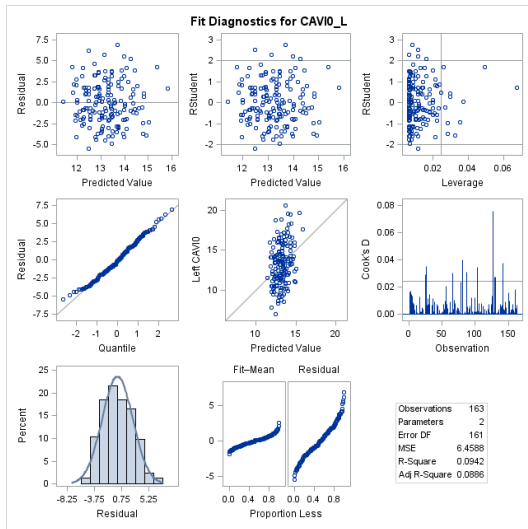


Figure S 19- Fit statistics and assumption checking for the Linear regression, dependent variable Left CAVI₀ and independent variable SBP

Table S 30- test of autocorrelation for the Linear regression, dependent variable Left CAVI₀ and independent variable SBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 1.9868 | 0.4657 | 0.5343 |

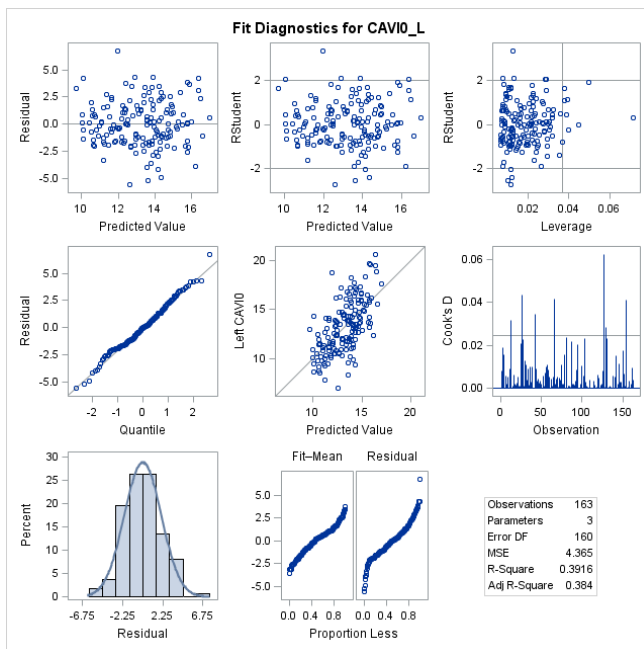


Figure S 20- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable SBP and age

Table S 31- test of autocorrelation for the Linear regression, dependent variable Left CAVI₀ and independent variable SBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.1975 | 0.8952 | 0.1048 |

Table S 32- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVI₀ as the dependent variable and SBP and Age as independent ones, SBP=Systolic Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | -0.41034 | 1.50361 | -0.27 | 0.7853 | . | 0 |
| sbp | 0.02813 | 0.00968 | 2.90 | 0.0042 | 0.95140 | 1.05109 |
| AGE | 0.15828 | 0.01790 | 8.84 | <.0001 | 0.95140 | 1.05109 |

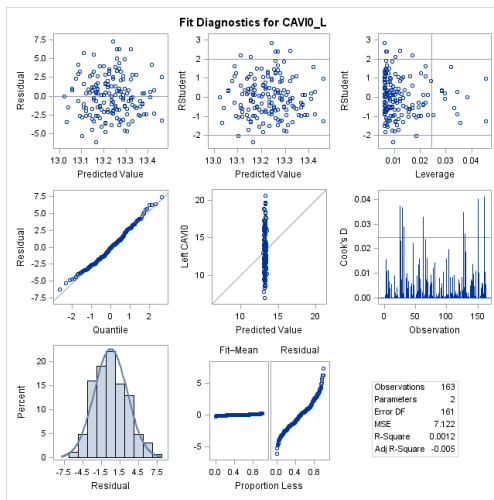


Figure S 21- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP

Table S 33- test of autocorrelation for the Linear regression, dependent variable Left CAVI₀ and independent variable DBP

| Durbin-Watson Statistics | | | | |
|--------------------------|--------|---------|---------|--|
| Order | DW | Pr < DW | Pr > DW | |
| 1 | 2.0163 | 0.5394 | 0.4606 | |

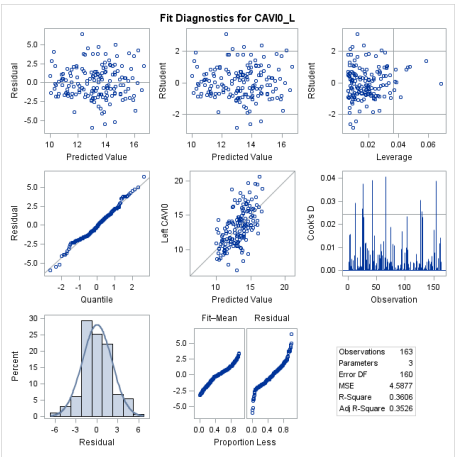


Figure S 22- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable DBP and age

Table S 34- test of autocorrelation for the Linear regression, dependent variable Left CAVI₀ and independent variable DBP and age

| Durbin-Watson Statistics | | | | |
|--------------------------|--------|---------|---------|--|
| Order | DW | Pr < DW | Pr > DW | |
| 1 | 2.2235 | 0.9218 | 0.0782 | |

Table S 35- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVI0 as the dependent variable and DBP and Age as independent ones, DBP=Diastolic Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 1.86505 | 1.73107 | 1.08 | 0.2829 | . | 0 |
| dbp | 0.00822 | 0.01617 | 0.51 | 0.6122 | 0.99999 | 1.00001 |
| AGE | 0.16971 | 0.01790 | 9.48 | <.0001 | 0.99999 | 1.00001 |

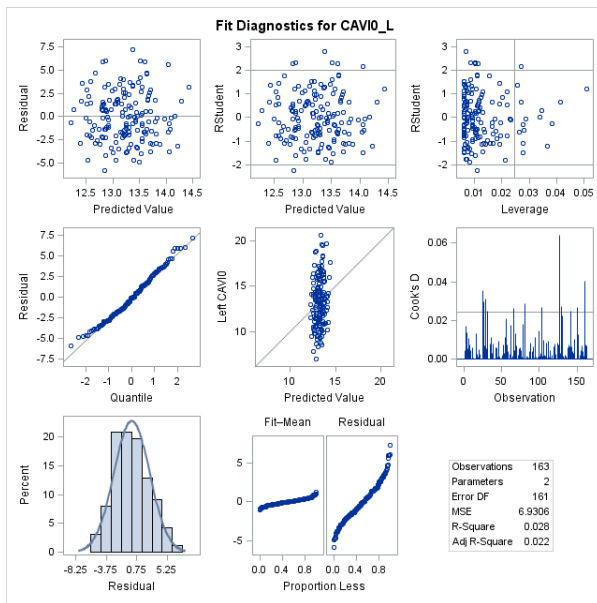


Figure S 23- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI0 and independent variable MBP

Table S 36- test of autocorrelation for the Linear regression, dependent variable Left CAVI0 and independent variable MBP

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.0162 | 0.5397 | 0.4603 |

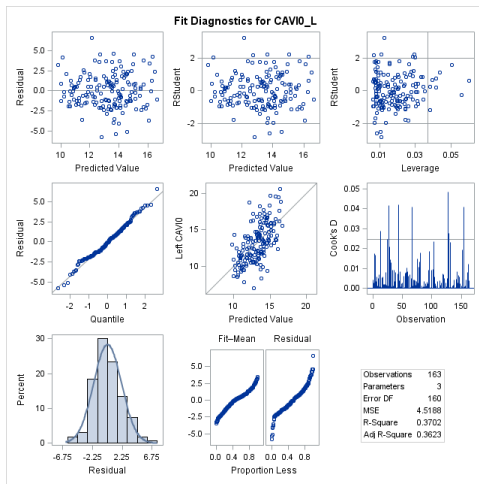


Figure S 24- Fit statistics and assumption checking for the Linear regression, dependent variable Right CAVI₀ and independent variable MBP and age

Table S 37- test of autocorrelation for the Linear regression, dependent variable Left CAVIO and independent variable MBP and age

Durbin-Watson Statistics

| Order | DW | Pr < DW | Pr > DW |
|-------|--------|---------|---------|
| 1 | 2.2213 | 0.9201 | 0.0799 |

Table S 38- Linear regression analysis for the test of collinearity between the independent variables in the regression models, Left CAVIO as the dependent variable and MBP and Age as independent ones, MBP=Mean Blood Pressure

| Variable | Parameter Estimate | Standard Error | t Value | Pr > t | Tolerance | Variance Inflation |
|------------------|--------------------|----------------|---------|---------|-----------|--------------------|
| Intercept | 0.49781 | 1.67485 | 0.30 | 0.7667 | . | 0 |
| mbp | 0.02293 | 0.01395 | 1.64 | 0.1022 | 0.98830 | 1.01183 |
| AGE | 0.16657 | 0.01786 | 9.32 | <.0001 | 0.98830 | 1.01183 |

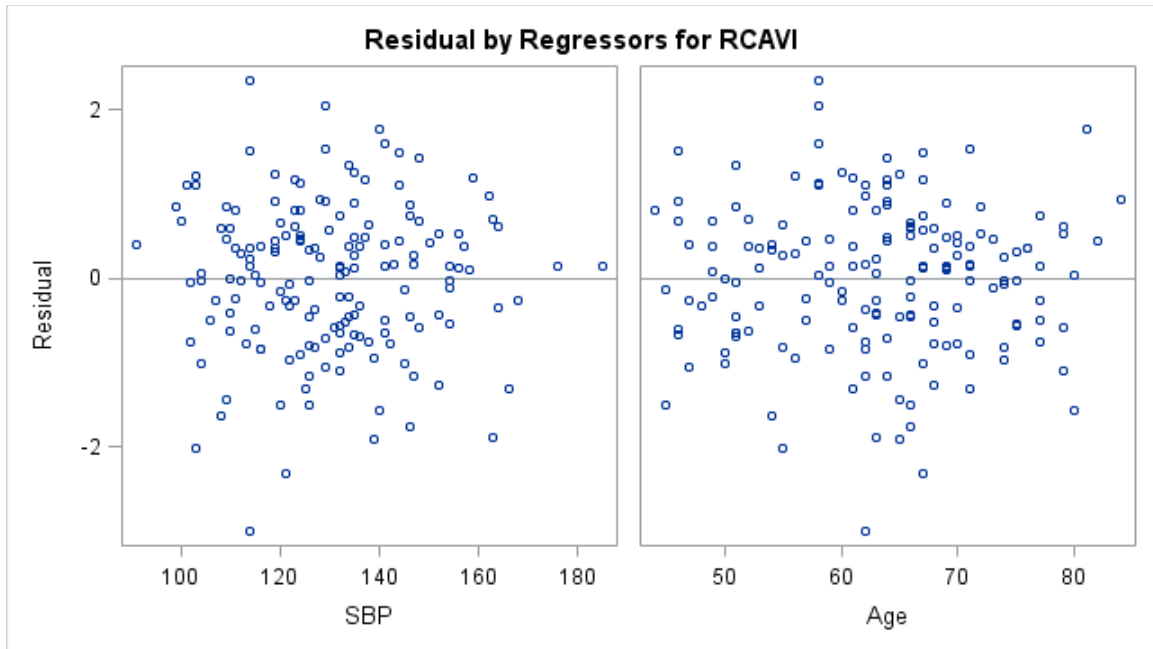


Figure S 25- Test for the independence of errors assumption, RCAVI=right CAVI, SBP=Systolic Blood Pressure

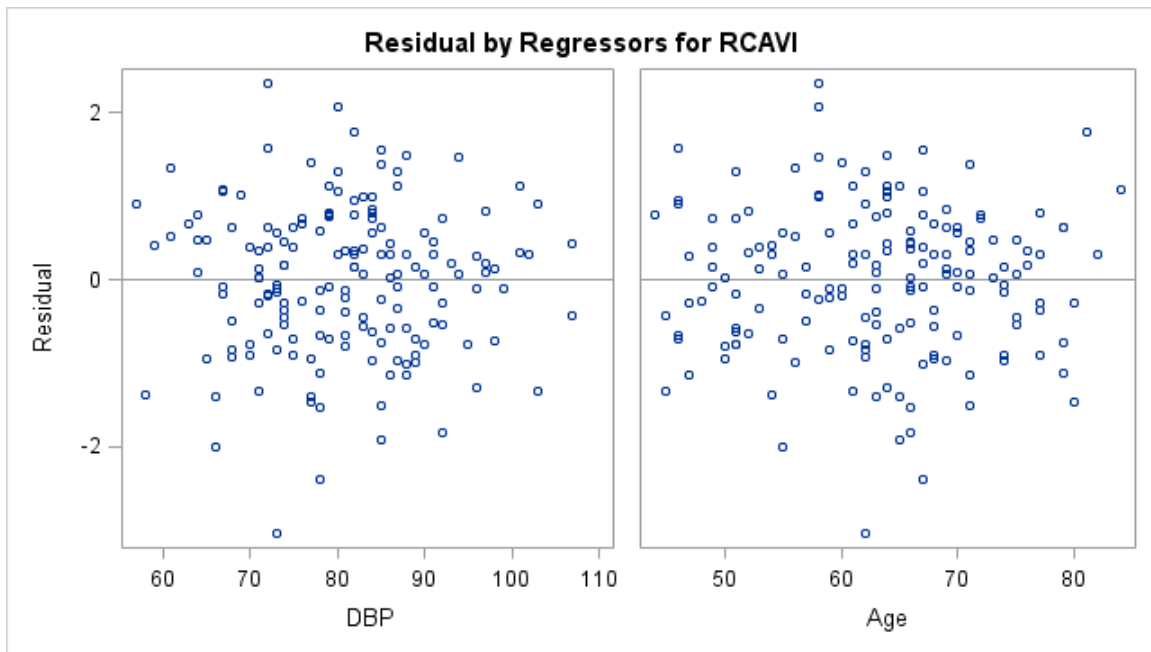


Figure S 26- Test for the independence of errors assumption, RCAVI=right CAVI, DBP=Diastolic Blood Pressure

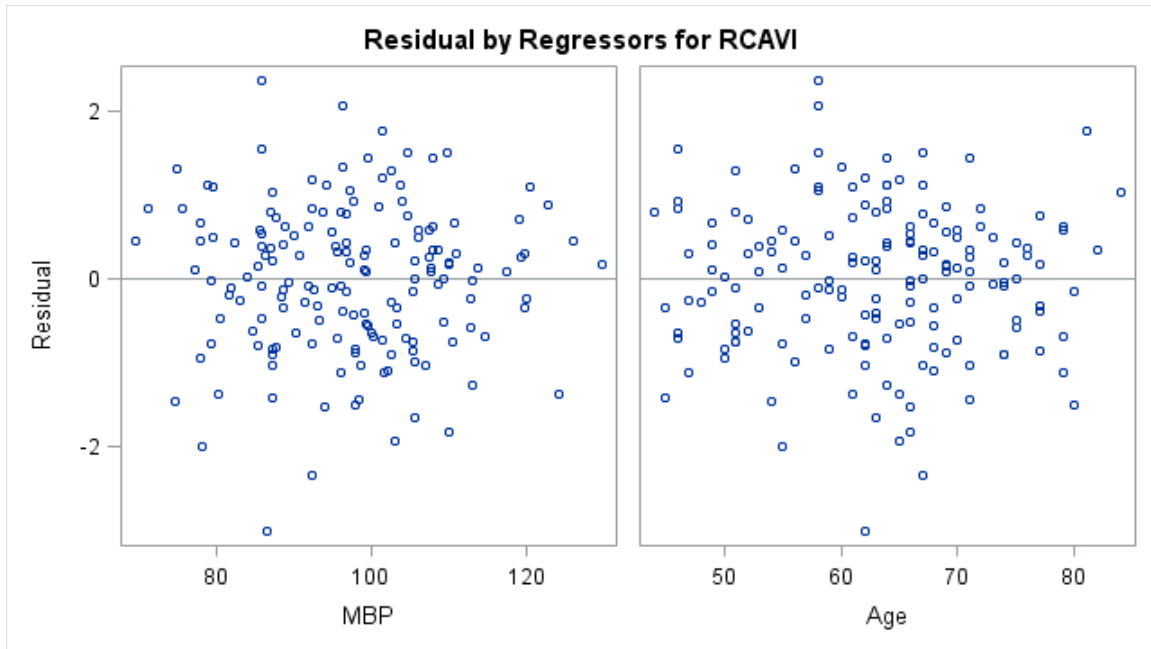


Figure S 27- Test for the independence of errors assumption, RCAVI=right CAVI, MBP=Mean Blood Pressure

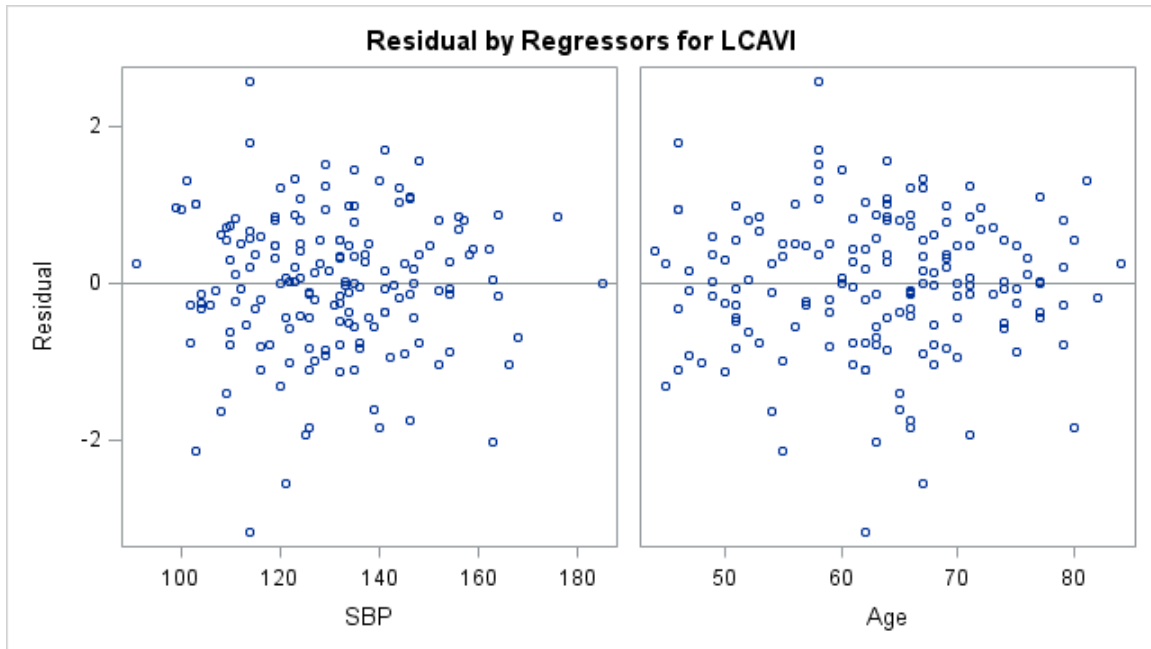


Figure S 28- Test for the independence of errors assumption, LCAVI=Left CAVI, SBP=Systolic Blood Pressure

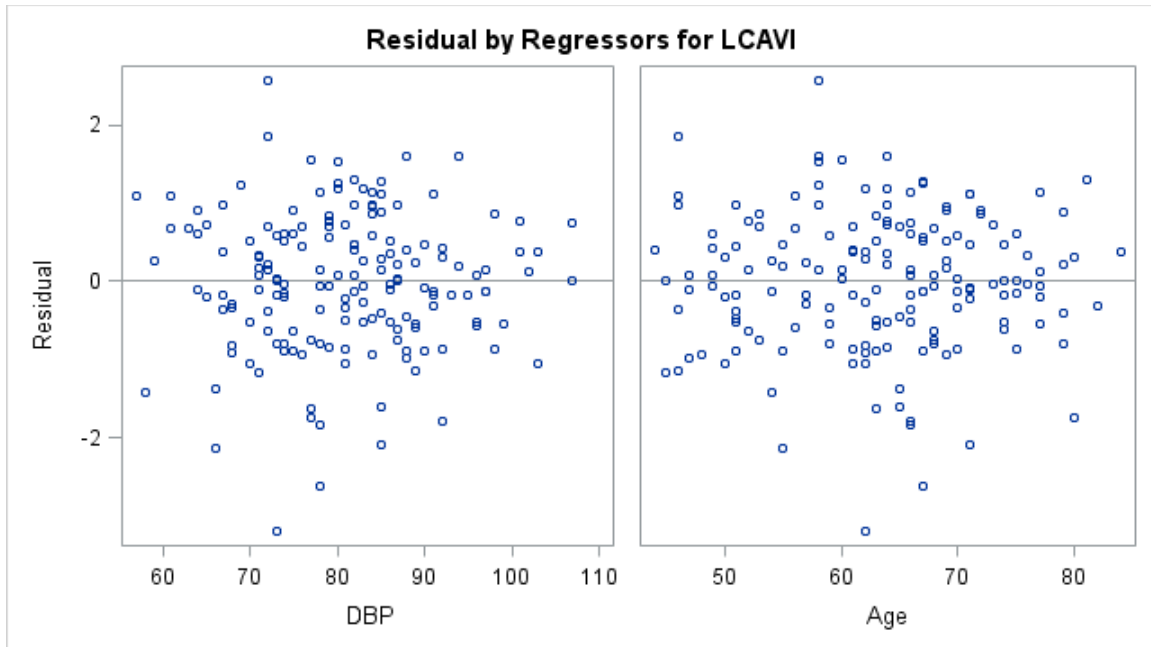


Figure S 29- Test for the independence of errors assumption, LCAVI=Left CAVI, DBP=Diastolic Blood Pressure

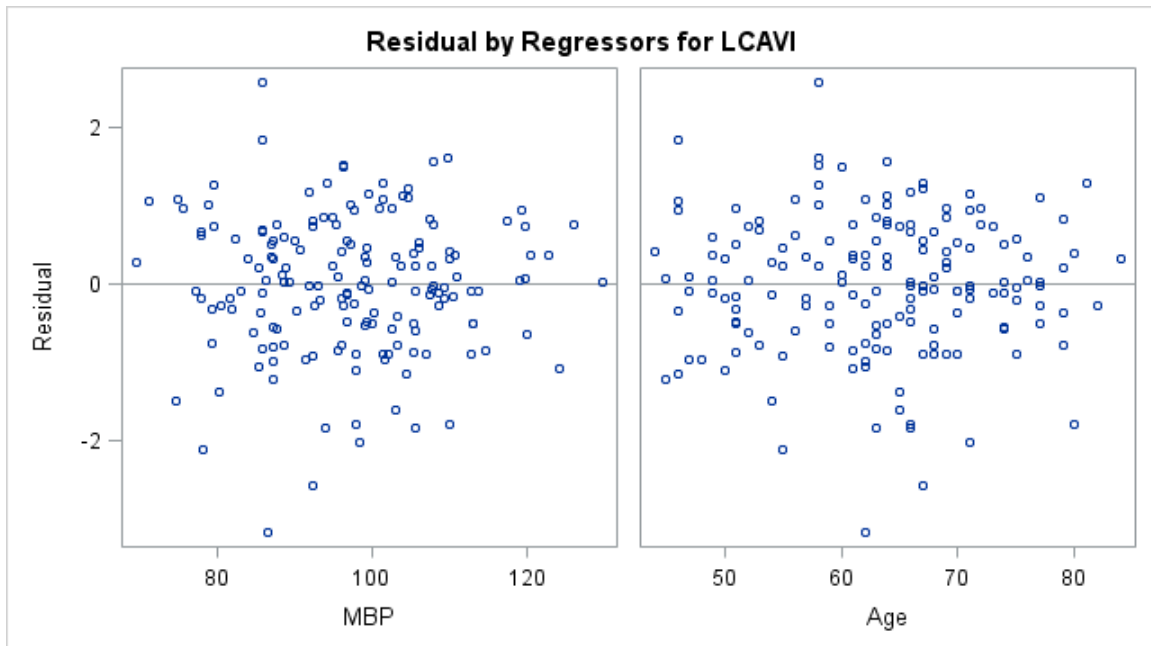


Figure S 30- Test for the independence of errors assumption, LCAVI=Left CAVI, MBP=Mean Blood Pressure

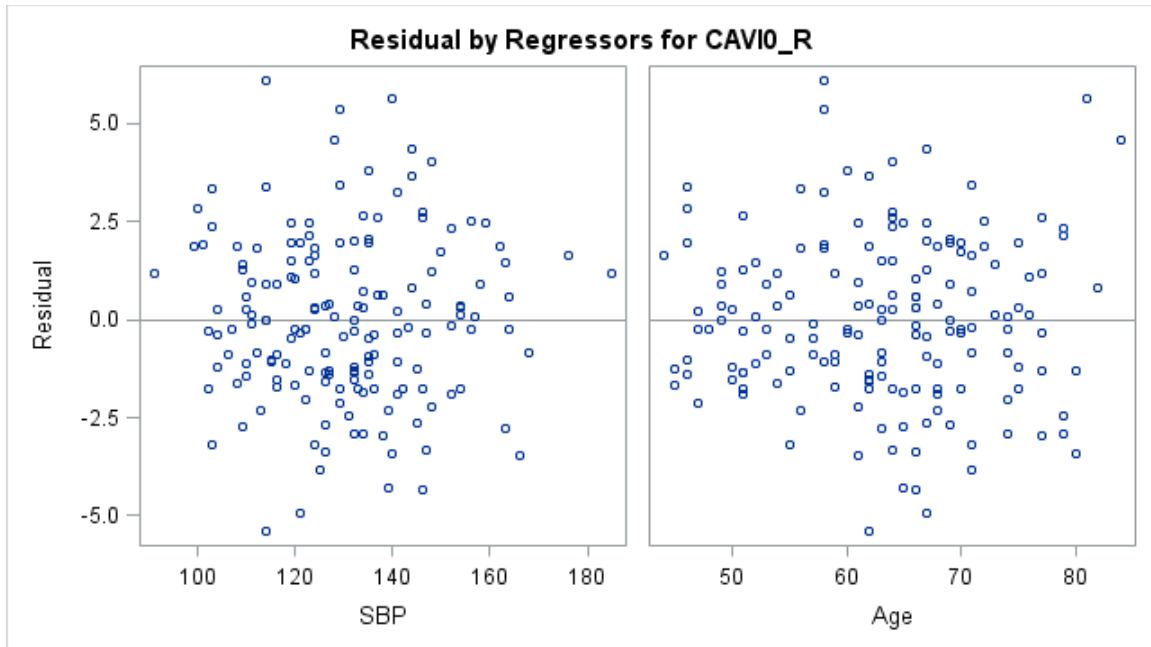


Figure S 31- Test for the independence of errors assumption, CAVI0_R=Right CAVI, SBP=Systolic Blood Pressure

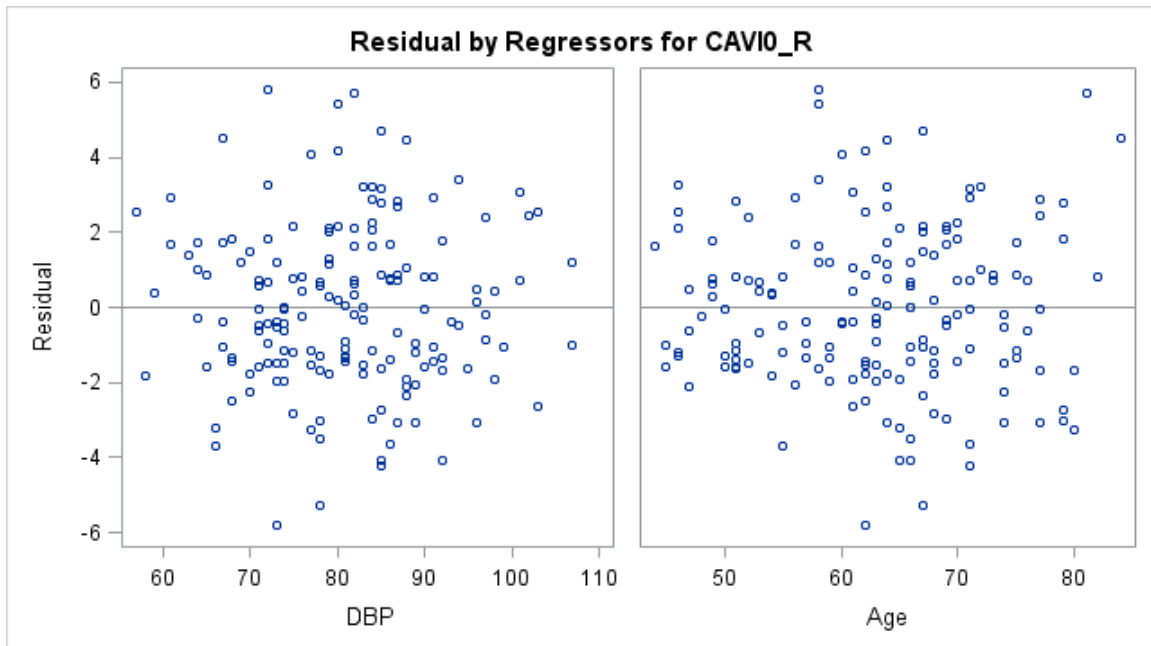


Figure S 32- Test for the independence of errors assumption, CAVI0_R=Right CAVI, DBP=Diastolic Blood Pressure

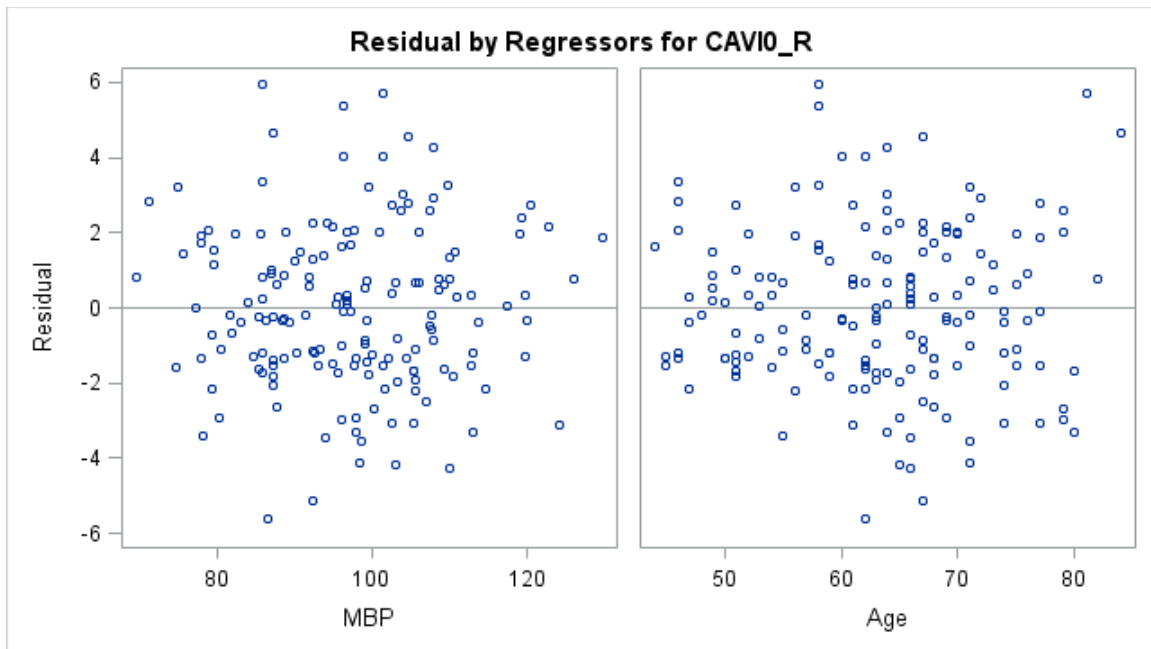


Figure S 33- Test for the independence of errors assumption, CAVI0_R=Right CAVI, MBP=Mean Blood Pressure