CODE

```
LIBNAME ass3 'C:\Users\BrewJR\Desktop\ass3';
DATA ass3.mydata;
SET ass3.afghm114;
RUN;
%let dat=ass3.mydata;
/*ods pdf file = "C:\Users\BrewJR\Desktop\ass3\ass3.pdf" notoc;*/
proc print data=&dat (obs=7);
run;
/* Correlation coefficient between sysbp and age*/
ods graphics on;
proc corr data=&dat;
var sysbp age;
run;
ods graphics off;
/* simple linear regression where y=sysbp and x=age*/
ods graphics on;
proc reg data=&dat;
model sysbp=age;
run;
ods graphics off;
/* ANOVA table*/
ods graphics on;
proc anova data=&dat;
model sysbp=age;
run;
ods graphics off;
/* anova sbp by age */
ods graphics on;
proc glm data=&dat;
model sysbp=age;
run;
ods graphics off;
/* analysis of residuals*/
ods graphics on;
proc reg data=&dat;
model sysbp=age;
output out= myresids residual=r predicted=fv;
run;
quit;
ods graphics off;
/*get CI */
ods graphics on;
proc reg data=&dat;
model sysbp=age/clb;
run;
ods graphics off;
```

```
/* third bullet point - histogram of residuals */
ods graphics on;
proc univariate data=myresids;
var r;
histogram;
run;
ods graphics off;
/* third bullet point - qqplot of residuals */
ods graphics on;
proc univariate data=myresids;
var r;
qqplot;
run;
ods graphics off;
/* lots for y=sysbp and x=age*/
ods graphics on / height = 3in width=4in;
proc reg data=&dat plots(unpack)=all;
model sysbp=age/clb;
output out=data2 p=yhat r=resid lclm=lclm uclm=uclm lcl=llclp ucl=uclp;
run;
quit;
ods graphics off;
/* lots for y=lnsbp and x=age*/
ods graphics on / height = 3in width=4in;
proc reg data=&dat plots(unpack)=all;
model lnsbp=age/clb;
output out=data2 p=yhat r=resid lclm=lclm uclm=uclm lcl=llclp ucl=uclp;
run;
quit;
ods graphics off;
/*ods pdf close;*/
```

LOG

```
... | 100000 | 10000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 
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Obs	SEX	RANDID	тотсног	AGE	SYSBP	DIABP	CURSMOKE	CIGPDAY	BMI
1	1	14367	280	64	168	100	0	0	25.72
2	1	33077	215	60	144.5	80	1	10	22.96
3	2	66472	249	72	157	87	0	0	29.55
4	1	98536	241	58	135	70	1	30	25.68
5	2	134914	180	52	195	107	1	40	22.36
6	2	168256	272	64	116	66	0	0	23.18
7	2	199229	214	64	130	74	1	20	26.21

Obs	DIABETES	BPMEDS	HEARTRTE	GLUCOSE	PREVCHD	PREVAP	PREVMI
1	0	0	92	82	0	0	0
2	0	0	57	91	0	0	0
3	1	0	65	73	0	0	0
4	0	0	90	93	0	0	0
5	0	1	68	75	1	1	0
6	0	0	77	74	0	0	0
7	0	0	75	85	0	0	0

Obs	PREVSTRK	PREVHYP	PERIOD	HDLC	LDLC	LNSBP
1	0	1	3	44	236	5.12396
2	0	1	3	62	135	4.97328
3	0	1	3	78	171	5.05625
4	0	0	3	41	200	4.90527
5	0	1	3	60	120	5.27300
6	0	0	3	41	231	4.75359
7	0	0	3	54	160	4.86753

The CORR Procedure

2 Variables:	SYSBP	AGE
--------------	-------	-----

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
SYSBP	500	140.40900	23.24189	70205	86.00000	246.00000	Systolic BP mmHg
AGE	500	60.85600	8.12523	30428	47.00000	78.00000	Age (years) at examination

Pearson Correlation Coefficients, N = 500 Prob > r under H0: Rho=0					
	SYSBP	AGE			
SYSBP Systolic BP mmHg	1.00000	0.35172 <.0001			
AGE Age (years) at examination	0.35172 <.0001	1.00000			

The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg

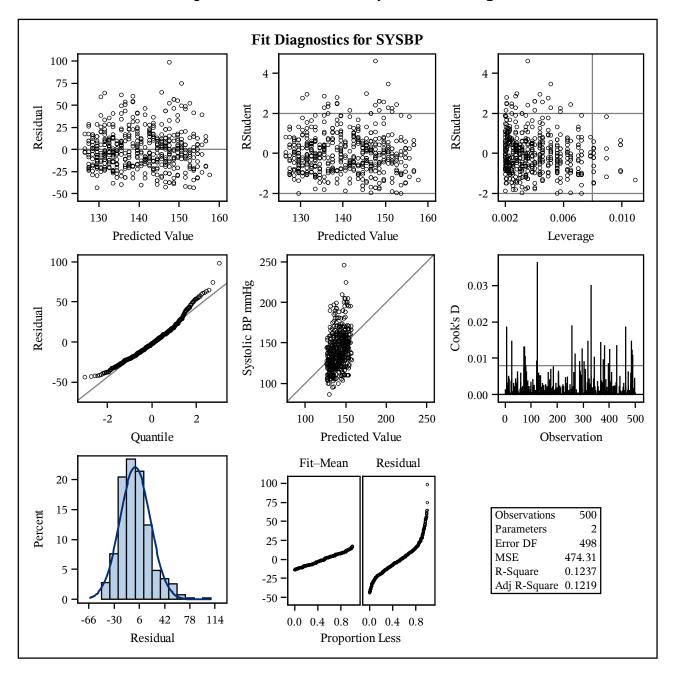
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	1	33345	33345	70.30	<.0001		
Error	498	236207	474.31150				
Corrected Total	499	269553					

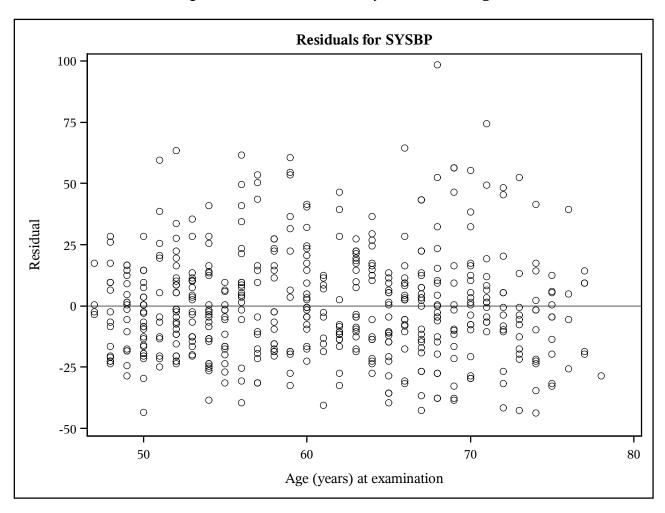
Root MSE	21.77869	R-Square	0.1237
Dependent Mean	140.40900	Adj R-Sq	0.1219
Coeff Var	15.51090		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t		
Intercept	Intercept	1	79.18296	7.36680	10.75	<.0001		
AGE	Age (years) at examination	1	1.00608	0.11999	8.38	<.0001		

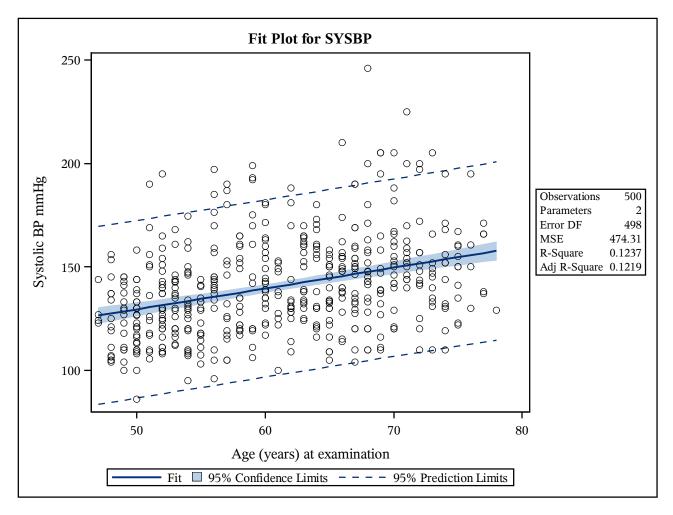
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The GLM Procedure

Number of Observations Read	500
Number of Observations Used	500

The GLM Procedure

Dependent Variable: SYSBP Systolic BP mmHg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	33345.4820	33345.4820	70.30	<.0001
Error	498	236207.1275	474.3115		
Corrected Total	499	269552.6095			

R-Square	Coeff Var	Root MSE	SYSBP Mean
0.123707	15.51090	21.77869	140.4090

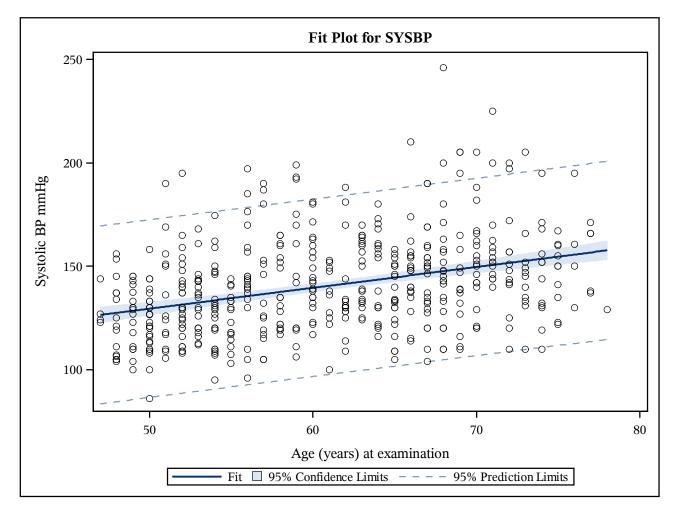
Source	DF	Type I SS	Mean Square	F Value	Pr > F
AGE	1	33345.48204	33345.48204	70.30	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
AGE	1	33345.48204	33345.48204	70.30	<.0001

Parameter	Estimate	Standard Error	t Value	Pr > t
Intercept	79.18296094	7.36679773	10.75	<.0001
AGE	1.00608057	0.11999029	8.38	<.0001

The GLM Procedure

Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg

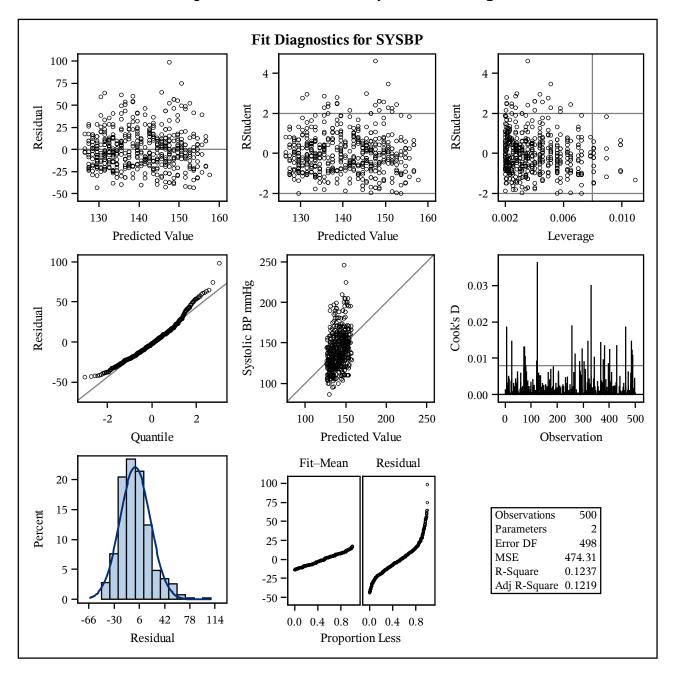
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance							
Source Sum of Square Mean Square F Value Pr >							
Model	1	33345	33345	70.30	<.0001		
Error	498	236207	474.31150				
Corrected Total	499	269553					

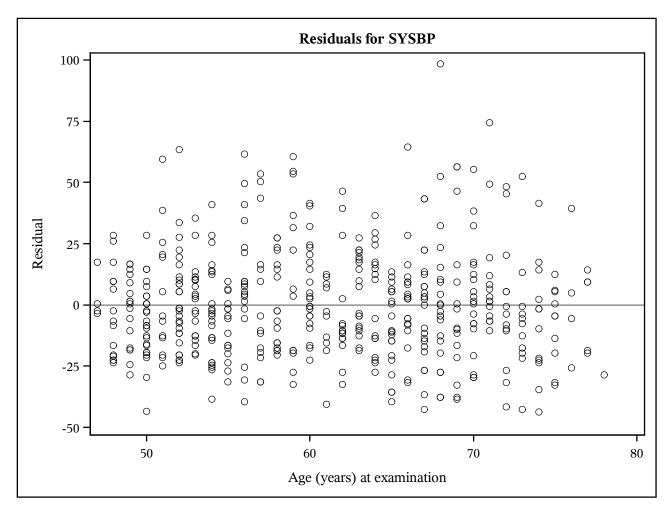
Root MSE	21.77869	R-Square	0.1237
Dependent Mean	140.40900	Adj R-Sq	0.1219
Coeff Var	15.51090		

Parameter Estimates							
Variable Label DF Parameter Standard Error t Value Pr >							
Intercept	Intercept	1	79.18296	7.36680	10.75	<.0001	
AGE	Age (years) at examination	1	1.00608	0.11999	8.38	<.0001	

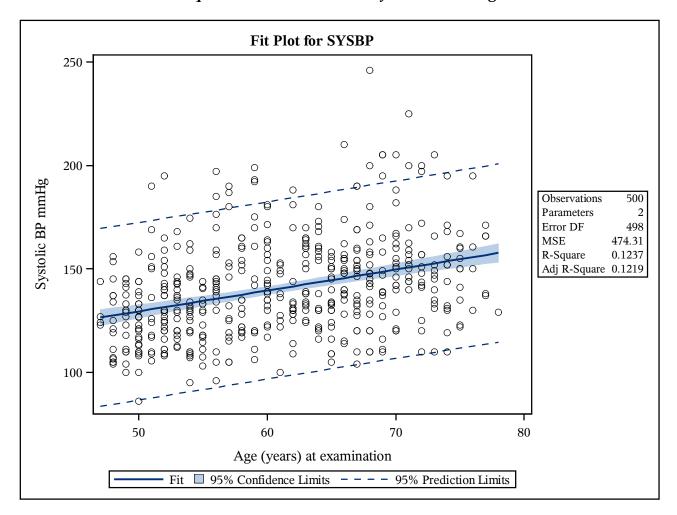
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg

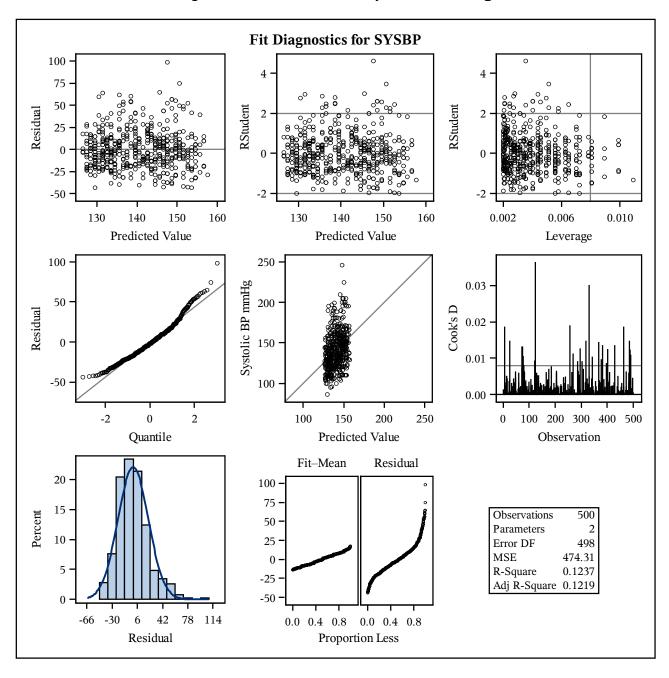
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance							
Source Sum of Mean F Value Pr >							
Model	1	33345	33345	70.30	<.0001		
Error	498	236207	474.31150				
Corrected Total	499	269553					

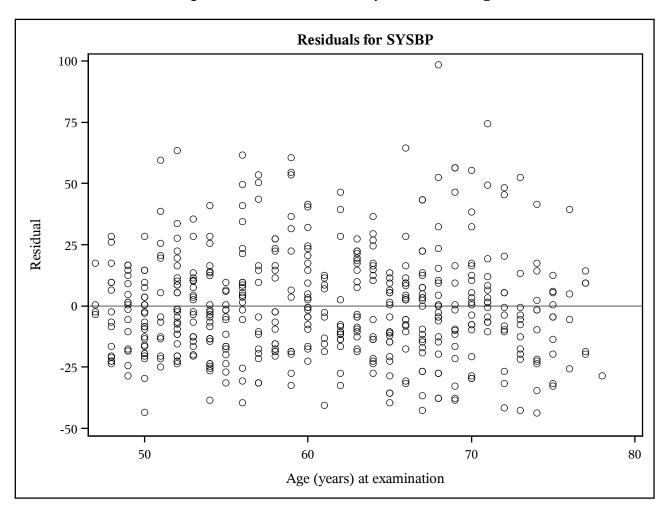
Root MSE	21.77869	R-Square	0.1237
Dependent Mean	140.40900	Adj R-Sq	0.1219
Coeff Var	15.51090		

Parameter Estimates								
Variable	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$, •	
Intercept	Intercept	1	79.18296	7.36680	10.75	<.0001	64.70913	93.65680
AGE	Age (years) at examination	1	1.00608	0.11999	8.38	<.0001	0.77033	1.24183

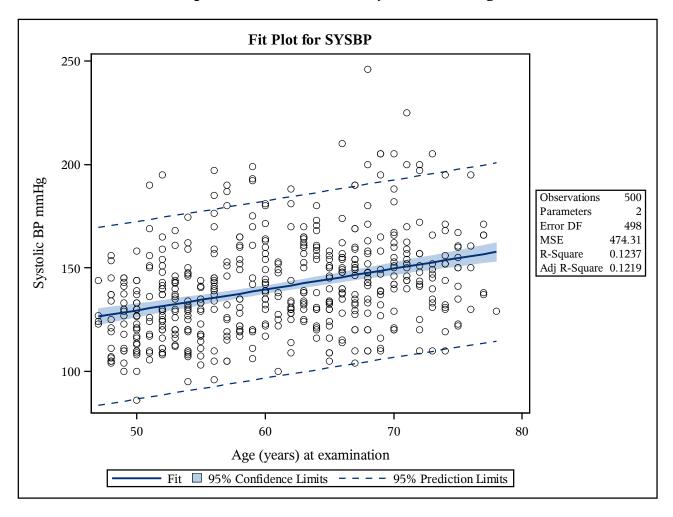
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The UNIVARIATE Procedure Variable: r (Residual)

Moments					
N	500	Sum Weights	500		
Mean	0	Sum Observations	0		
Std Deviation	21.7568605	Variance	473.360977		
Skewness	0.7714428	Kurtosis	1.03513711		
Uncorrected SS	236207.127	Corrected SS	236207.127		
Coeff Variation		Std Error Mean	0.97299638		

	Basic Statistical Measures					
Location Variability						
Mean	0.0000	Std Deviation	21.75686			
Median	-2.4809	Variance	473.36098			
Mode	-13.5113	Range	142.03648			
		Interquartile Range	26.99696			

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: Mu0=0					
Test	Stat	istic	p Val	ue	
Student's t	t	0	Pr > t	1.0000	
Sign	M	-21	Pr >= M	0.0666	
Signed Rank	S	-5240	Pr >= S	0.1051	

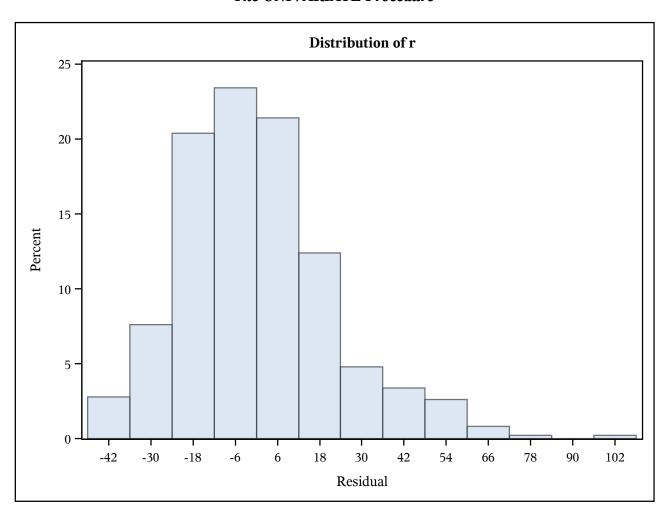
Quantiles (Definition 5)		
Quantile	Estimate	
100% Max	98.40356	
99%	60.96741	
95%	42.43092	
90%	27.95829	
75% Q3	11.47957	
50% Median	-2.48091	
25% Q1	-15.51739	
10%	-24.75219	
5%	-31.52955	

The UNIVARIATE Procedure Variable: r (Residual)

Quantiles (Definition 5)		
Quantile	Estimate	
1%	-41.08732	
0% Min	-43.63292	

Extreme Observations				
Lowe	st	Highest		
Value	Obs	Value	Obs	
-43.6329	319	61.4765	491	
-43.4870	268	63.5008	5	
-42.6268	402	64.4157	487	
-42.5904	129	74.3853	329	
-41.6208	77	98.4036	123	

The UNIVARIATE Procedure



The UNIVARIATE Procedure Variable: r (Residual)

Moments					
N	500	Sum Weights	500		
Mean	0	Sum Observations	0		
Std Deviation	21.7568605	Variance	473.360977		
Skewness	0.7714428	Kurtosis	1.03513711		
Uncorrected SS	236207.127	Corrected SS	236207.127		
Coeff Variation		Std Error Mean	0.97299638		

	Basic Statistical Measures					
Location Variability						
Mean	0.0000	Std Deviation	21.75686			
Median	-2.4809	Variance	473.36098			
Mode	-13.5113	Range	142.03648			
		Interquartile Range	26.99696			

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: Mu0=0					
Test	Stat	istic	p Value		
Student's t	t	0	Pr > t	1.0000	
Sign	M	-21	Pr >= M	0.0666	
Signed Rank	S	-5240	Pr >= S	0.1051	

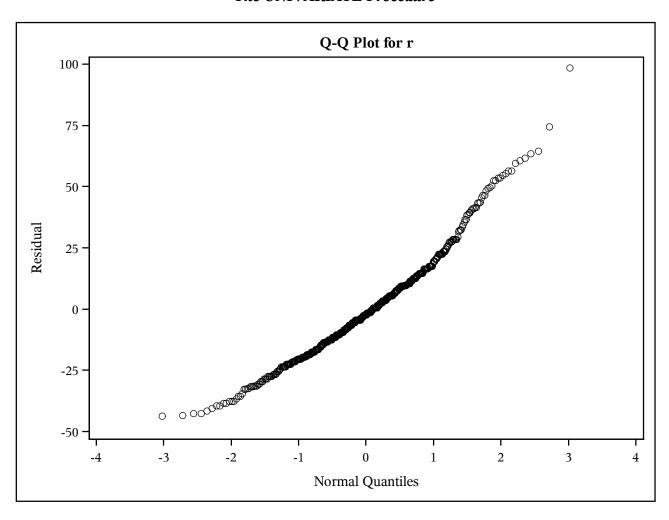
Quantiles (Definition 5)		
Quantile	Estimate	
100% Max	98.40356	
99%	60.96741	
95%	42.43092	
90%	27.95829	
75% Q3	11.47957	
50% Median	-2.48091	
25% Q1	-15.51739	
10%	-24.75219	
5%	-31.52955	

The UNIVARIATE Procedure Variable: r (Residual)

Quantiles (Definition 5)		
Quantile	Estimate	
1%	-41.08732	
0% Min	-43.63292	

Extreme Observations							
Lowe	st	Highest					
Value	Obs	Value	Obs				
-43.6329	319	61.4765	491				
-43.4870	268	63.5008	5				
-42.6268	402	64.4157	487				
-42.5904	129	74.3853	329				
-41.6208	77	98.4036	123				

The UNIVARIATE Procedure



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg

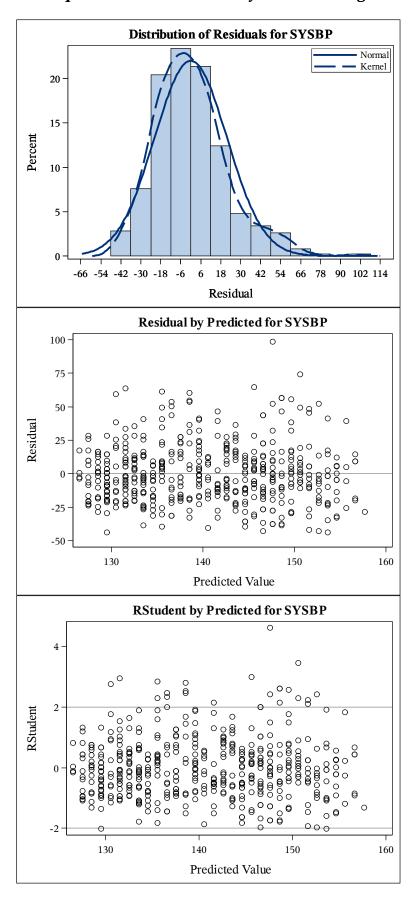
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance									
Source Sum of Square Mean Square F Value Pr >									
Model	1	33345	33345	70.30	<.0001				
Error	498	236207	474.31150						
Corrected Total	499	269553							

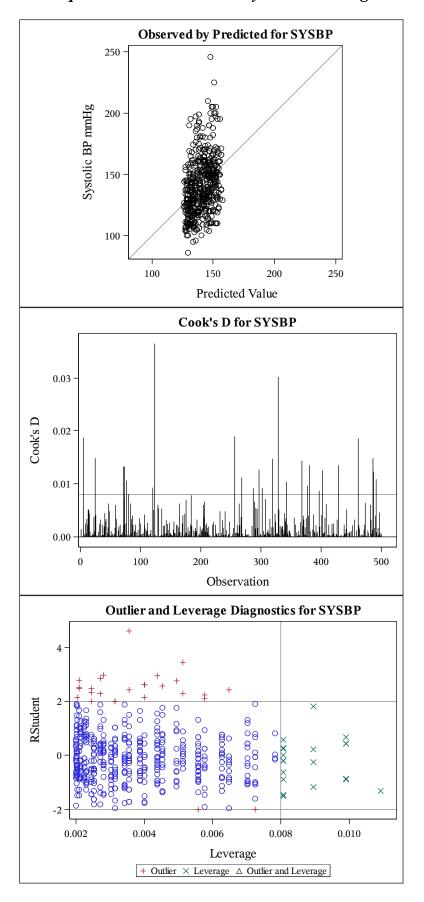
Root MSE	21.77869	R-Square	0.1237
Dependent Mean	140.40900	Adj R-Sq	0.1219
Coeff Var	15.51090		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	95% Confidence Limits	
Intercept	Intercept	1	79.18296	7.36680	10.75	<.0001	64.70913	93.65680
AGE	Age (years) at examination	1	1.00608	0.11999	8.38	<.0001	0.77033	1.24183

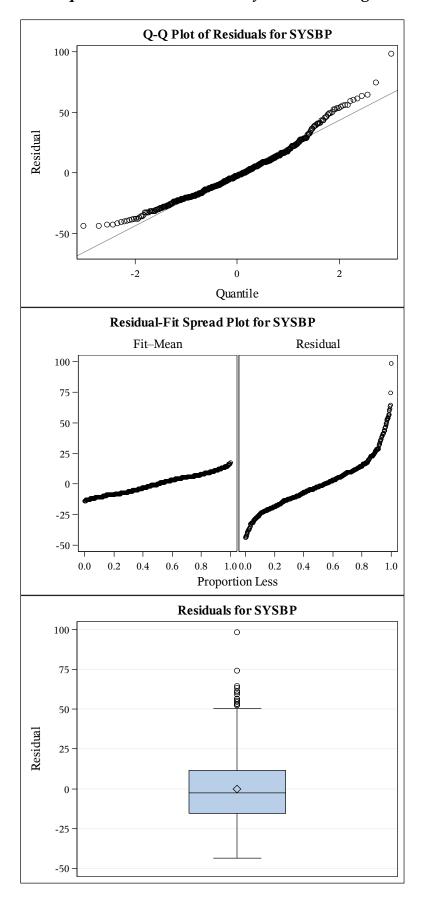
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



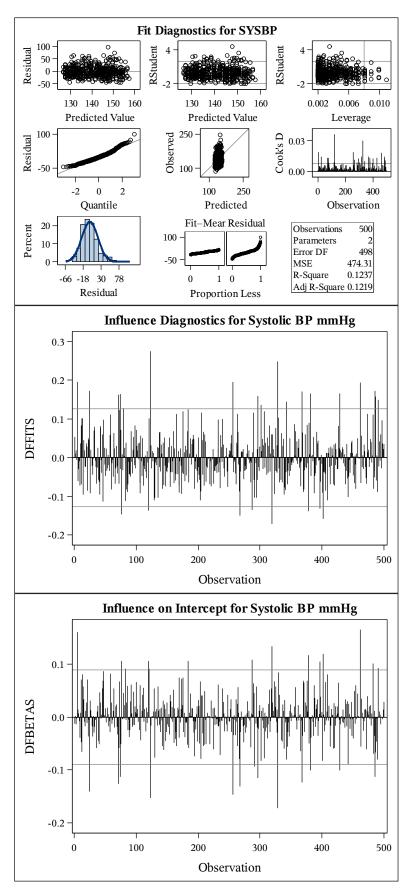
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



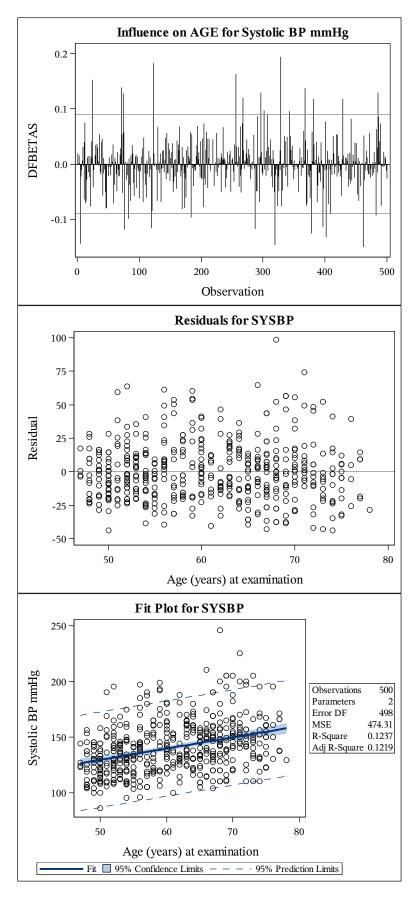
The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg



The REG Procedure Model: MODEL1 Dependent Variable: SYSBP Systolic BP mmHg

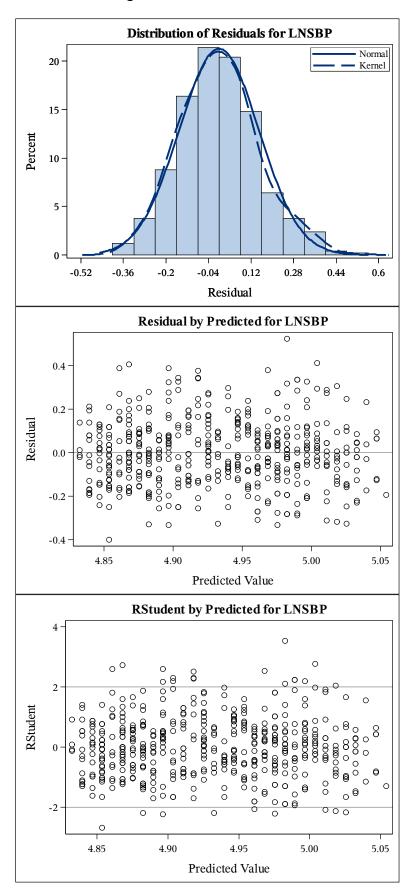


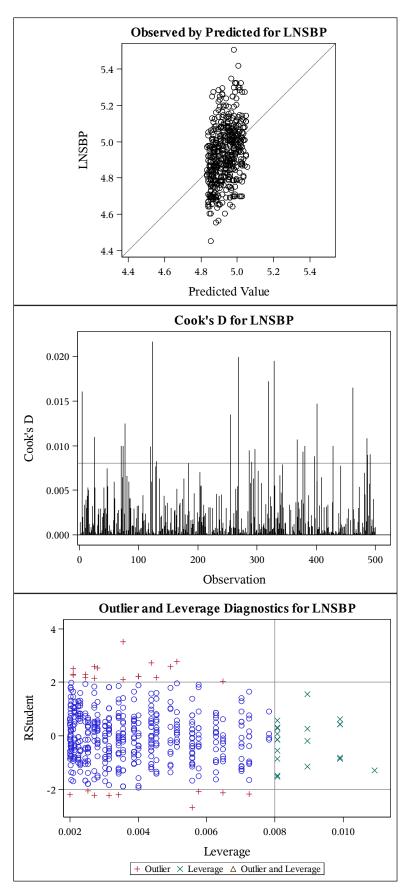
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance									
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F				
Model	1	1.68302	1.68302	74.55	<.0001				
Error	498	11.24220	0.02257						
Corrected Total	499	12.92522							

Root MSE	0.15025	R-Square	0.1302
Dependent Mean	4.93145	Adj R-Sq	0.1285
Coeff Var	3.04675		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	95 Confi Lir	, ,
Intercept	Intercept	1	4.49647	0.05082	88.47	<.0001	4.39662	4.59633
AGE	Age (years) at examination	1	0.00715	0.00082780	8.63	<.0001	0.00552	0.00877





The REG Procedure Model: MODEL1 Dependent Variable: LNSBP

