

Obs	SEX	RANDID	TOTCHOL	AGE	SYSBP	DIABP	CURSMOKE	CIGPDAY	BMI
1	1	14367	280	64	168	100	0	0	25.72
2	2	40435	226	54	126	75	1	40	21.59
3	1	67905	300	48	125	83	0	0	34.34
4	1	68397	320	53	148	89	1	8	22.78
5	2	84815	246	54	202	111	1	3	26.63
6	2	94510	293	53	127	77	1	3	25.68
7	2	134914	180	52	195	107	1	40	22.36

Obs	DIABETES	BPMEDS	HEARTRTE	GLUCOSE	PREVCHD	PREVAP	PREVMI
1	0	0	92	82	0	0	0
2	0	0	85	102	0	0	0
3	0	0	58	96	0	0	0
4	0	0	80	110	1	1	1
5	0	0	63	80	0	0	0
6	0	0	90	115	0	0	0
7	0	1	68	75	1	1	0

Obs	PREVSTRK	PREVHYP	PERIOD	HDLC	LDLC	LNSBP	FEMALE	MALE
1	0	1	3	44	236	5.12396	0	1
2	0	0	3	84	142	4.83628	1	0
3	0	1	3	47	253	4.82831	0	1
4	0	1	3	42	278	4.99721	0	1
5	0	1	3	41	205	5.30827	1	0
6	0	0	3	52	241	4.84419	1	0
7	0	1	3	60	120	5.27300	1	0

Obs	SEX	RANDID	TOTCHOL	AGE	SYSBP	DIABP	CURSMOKE	CIGPDAY	BMI
1	1	14367	280	64	168	100	0	0	25.72
2	2	40435	226	54	126	75	1	40	21.59
3	1	67905	300	48	125	83	0	0	34.34
4	1	68397	320	53	148	89	1	8	22.78
5	2	84815	246	54	202	111	1	3	26.63
6	2	94510	293	53	127	77	1	3	25.68
7	2	134914	180	52	195	107	1	40	22.36

Obs	DIABETES	BPMEDS	HEARTRTE	GLUCOSE	PREVCHD	PREVAP	PREVMI
1	0	0	92	82	0	0	0
2	0	0	85	102	0	0	0
3	0	0	58	96	0	0	0
4	0	0	80	110	1	1	1
5	0	0	63	80	0	0	0
6	0	0	90	115	0	0	0
7	0	1	68	75	1	1	0

Obs	PREVSTRK	PREVHYP	PERIOD	HDLC	LDLC	LNSBP	FEMALE	MALE
1	0	1	3	44	236	5.12396	0	1
2	0	0	3	84	142	4.83628	1	0
3	0	1	3	47	253	4.82831	0	1
4	0	1	3	42	278	4.99721	0	1
5	0	1	3	41	205	5.30827	1	0
6	0	0	3	52	241	4.84419	1	0
7	0	1	3	60	120	5.27300	1	0

**The CORR Procedure**

<b>3 Variables:</b>	LNSBP	AGE	BMI
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Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
<b>LNSBP</b>	500	4.91832	0.15004	2459	4.55388	5.34711	Log(Systolic BP)
<b>AGE</b>	500	60.27200	8.13057	30136	46.00000	80.00000	Age (years) at examination
<b>BMI</b>	500	25.88024	3.78653	12940	16.95000	46.52000	Body Mass Index (kr/(M*M))

Pearson Correlation Coefficients, N = 500 Prob >  r  under H0: Rho=0			
	LNSBP	AGE	BMI
<b>LNSBP</b> Log(Systolic BP)	1.00000	0.27495 <.0001	0.21418 <.0001
<b>AGE</b> Age (years) at examination	0.27495 <.0001	1.00000	-0.05336 0.2336
<b>BMI</b> Body Mass Index (kr/(M*M))	0.21418 <.0001	-0.05336 0.2336	1.00000

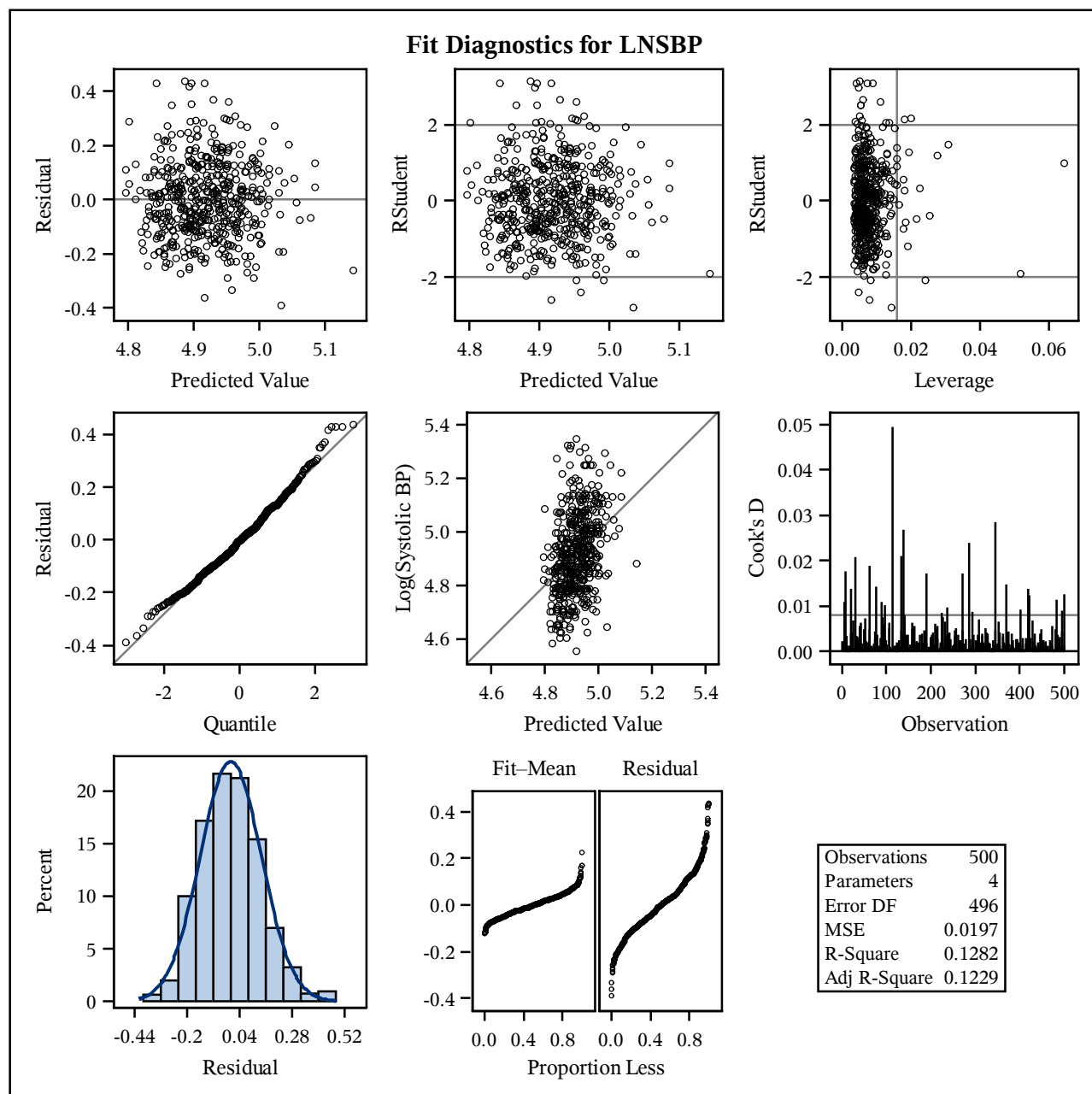
**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

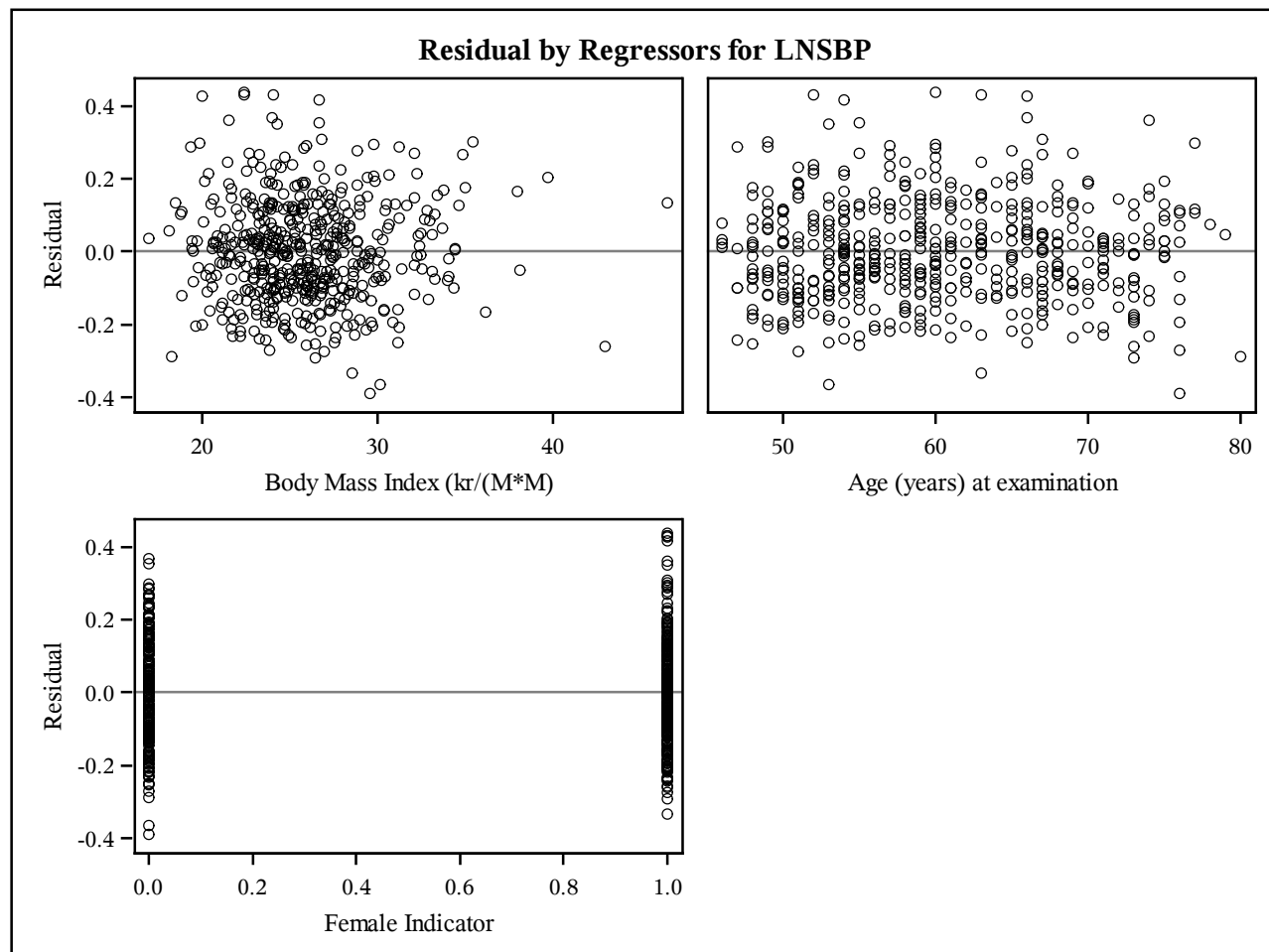
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.44034	0.48011	24.32	<.0001
Error	496	9.79311	0.01974		
Corrected Total	499	11.23345			

Root MSE	0.14051	R-Square	0.1282
Dependent Mean	4.91832	Adj R-Sq	0.1229
Coeff Var	2.85695		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	4.36158	0.06600	66.08	<.0001
BMI	Body Mass Index (kr/(M*M))	1	0.00912	0.00167	5.47	<.0001
AGE	Age (years) at examination	1	0.00529	0.00077509	6.83	<.0001
FEMALE	Female Indicator	1	0.00300	0.01269	0.24	0.8135

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

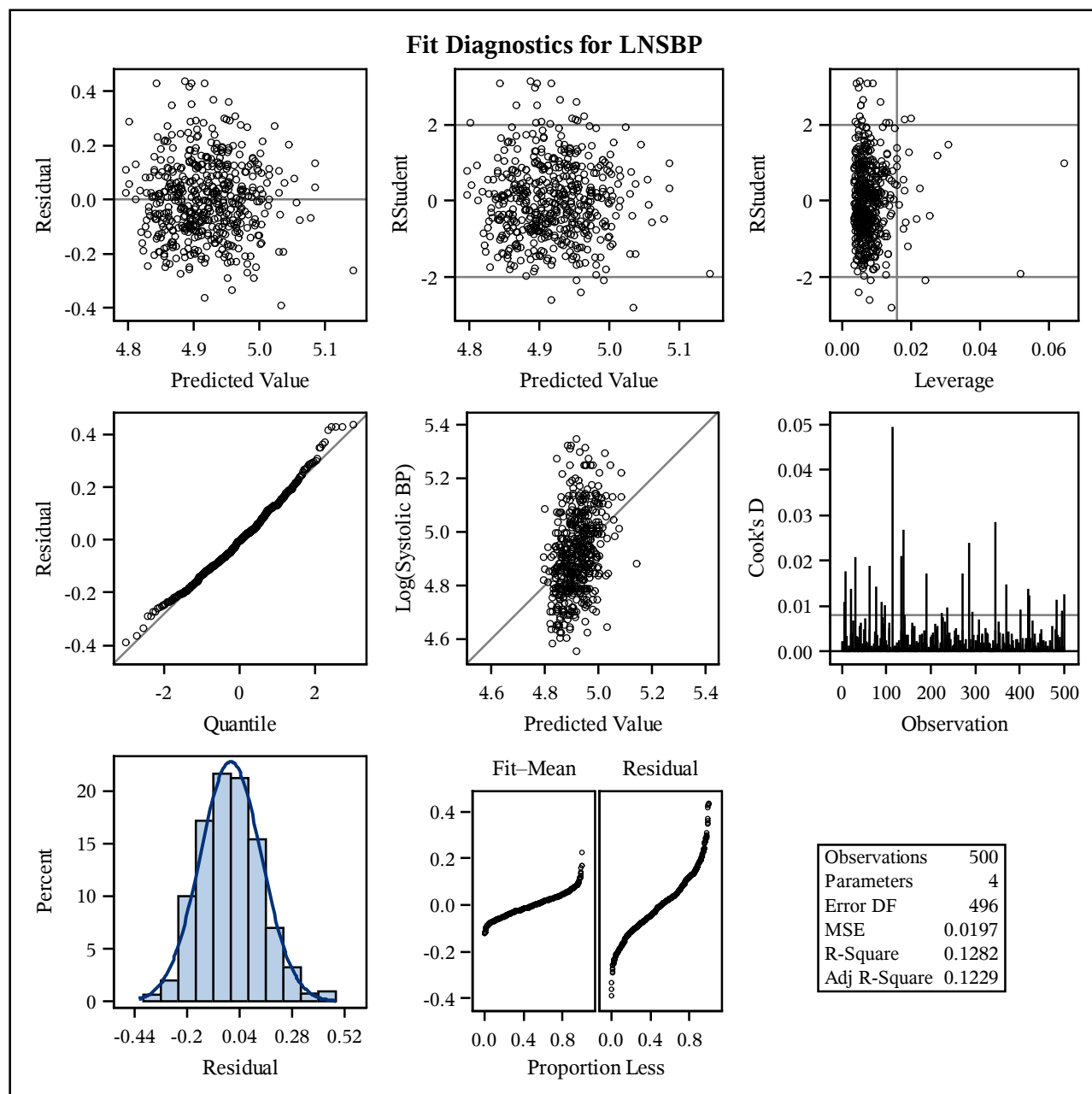
**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

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	3	1.44034	0.48011	24.32	<.0001
Error	496	9.79311	0.01974		
Corrected Total	499	11.23345			

Root MSE	0.14051	R-Square	0.1282
Dependent Mean	4.91832	Adj R-Sq	0.1229
Coeff Var	2.85695		

Parameter Estimates									
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation	95% Confidence Limits	
Intercept	Intercept	1	4.36158	0.06600	66.08	<.0001	0	4.23191	4.49126
BMI	Body Mass Index (kr/(M*M))	1	0.00912	0.00167	5.47	<.0001	1.00611	0.00584	0.01239
AGE	Age (years) at examination	1	0.00529	0.00077509	6.83	<.0001	1.00370	0.00377	0.00682
FEMALE	Female Indicator	1	0.00300	0.01269	0.24	0.8135	1.00428	-0.02194	0.02793

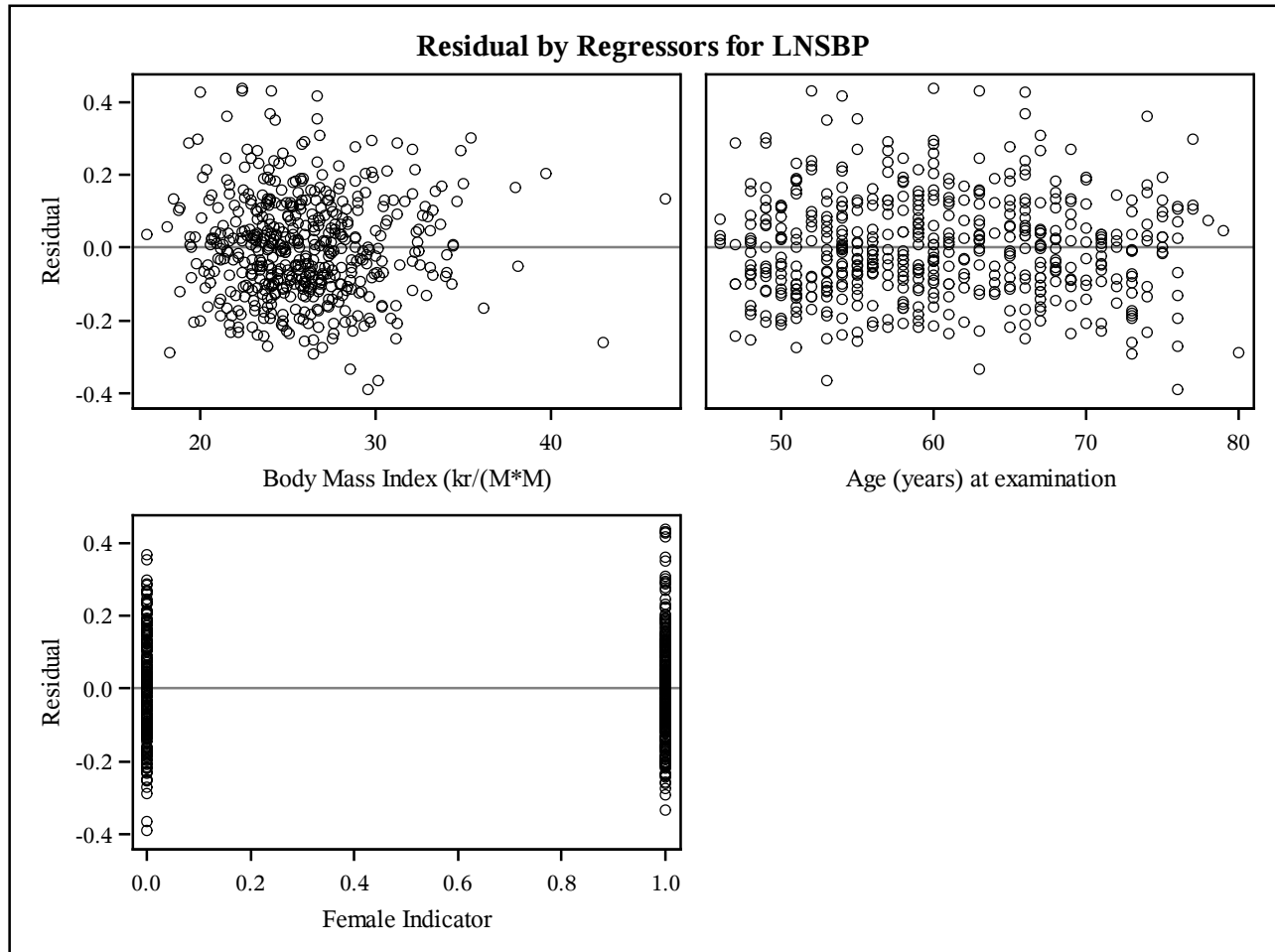
**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**



## The REG Procedure

Model: MODEL1

Dependent Variable: LNSBP Log(Systolic BP)



**The UNIVARIATE Procedure**  
**Variable: *r* (Residual)**

Moments			
N	500	Sum Weights	500
Mean	0	Sum Observations	0
Std Deviation	0.14009096	Variance	0.01962548
Skewness	0.35067702	Kurtosis	0.1768512
Uncorrected SS	9.79311371	Corrected SS	9.79311371
Coeff Variation	.	Std Error Mean	0.00626506

Basic Statistical Measures			
Location		Variability	
Mean	0.00000	Std Deviation	0.14009
Median	-0.00442	Variance	0.01963
Mode	.	Range	0.82588
		Interquartile Range	0.18990

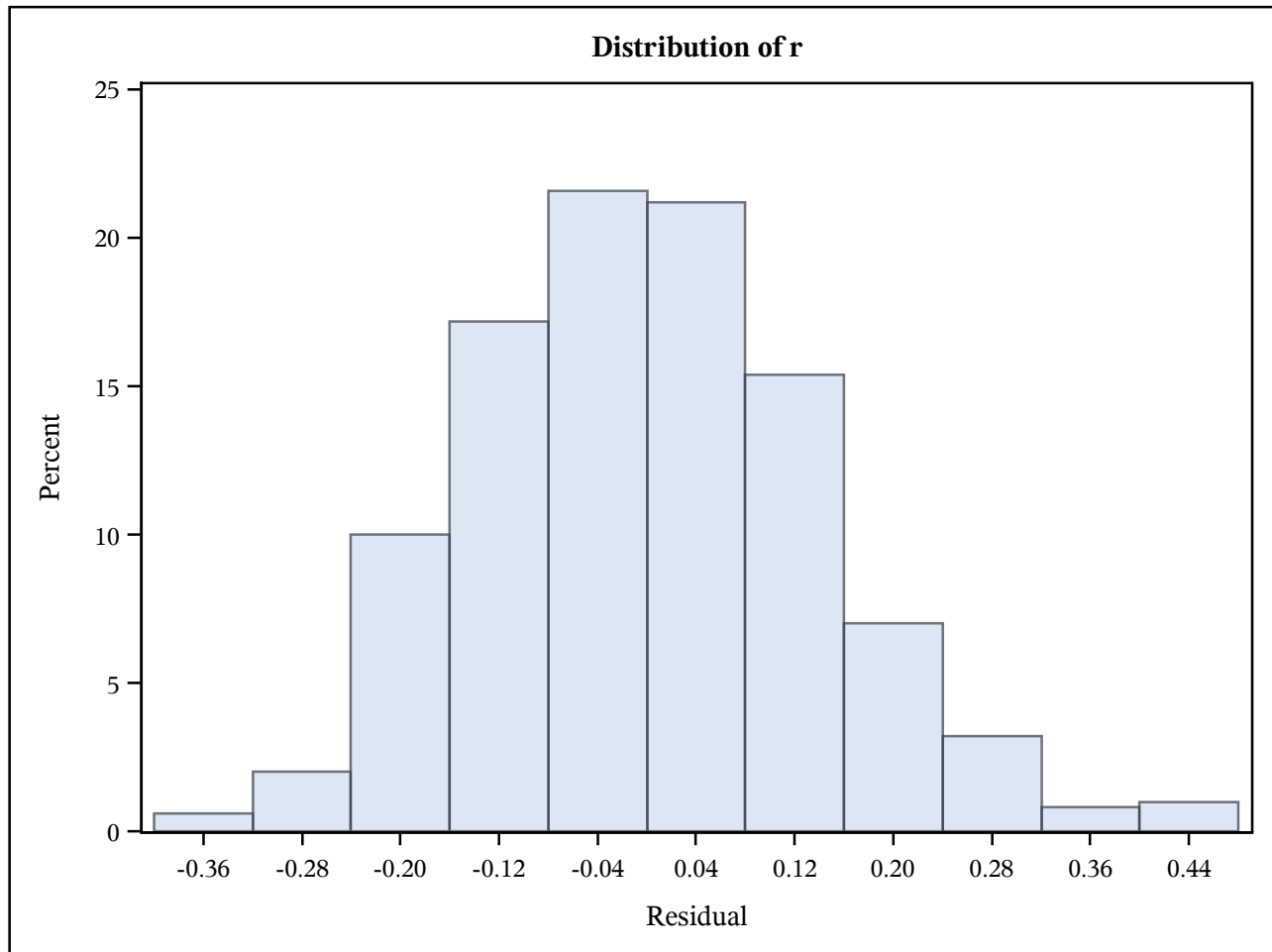
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	0	Pr >  t	1.0000
Sign	M	-7	Pr >=  M	0.5610
Signed Rank	S	-2100	Pr >=  S	0.5164

Quantiles (Definition 5)	
Quantile	Estimate
100% Max	0.43682371
99%	0.39184727
95%	0.24183362
90%	0.18225976
75% Q3	0.09112821
50% Median	-0.00441839
25% Q1	-0.09876805
10%	-0.17606518
5%	-0.21230178

***The UNIVARIATE Procedure***  
***Variable: r (Residual)***

Quantiles (Definition 5)	
Quantile	Estimate
1%	-0.28169131
0% Min	-0.38905956

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.389060	346	0.415012	5
-0.362905	21	0.426936	30
-0.333346	307	0.429261	7
-0.291730	401	0.429904	237
-0.288446	139	0.436824	499

***The UNIVARIATE Procedure***

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

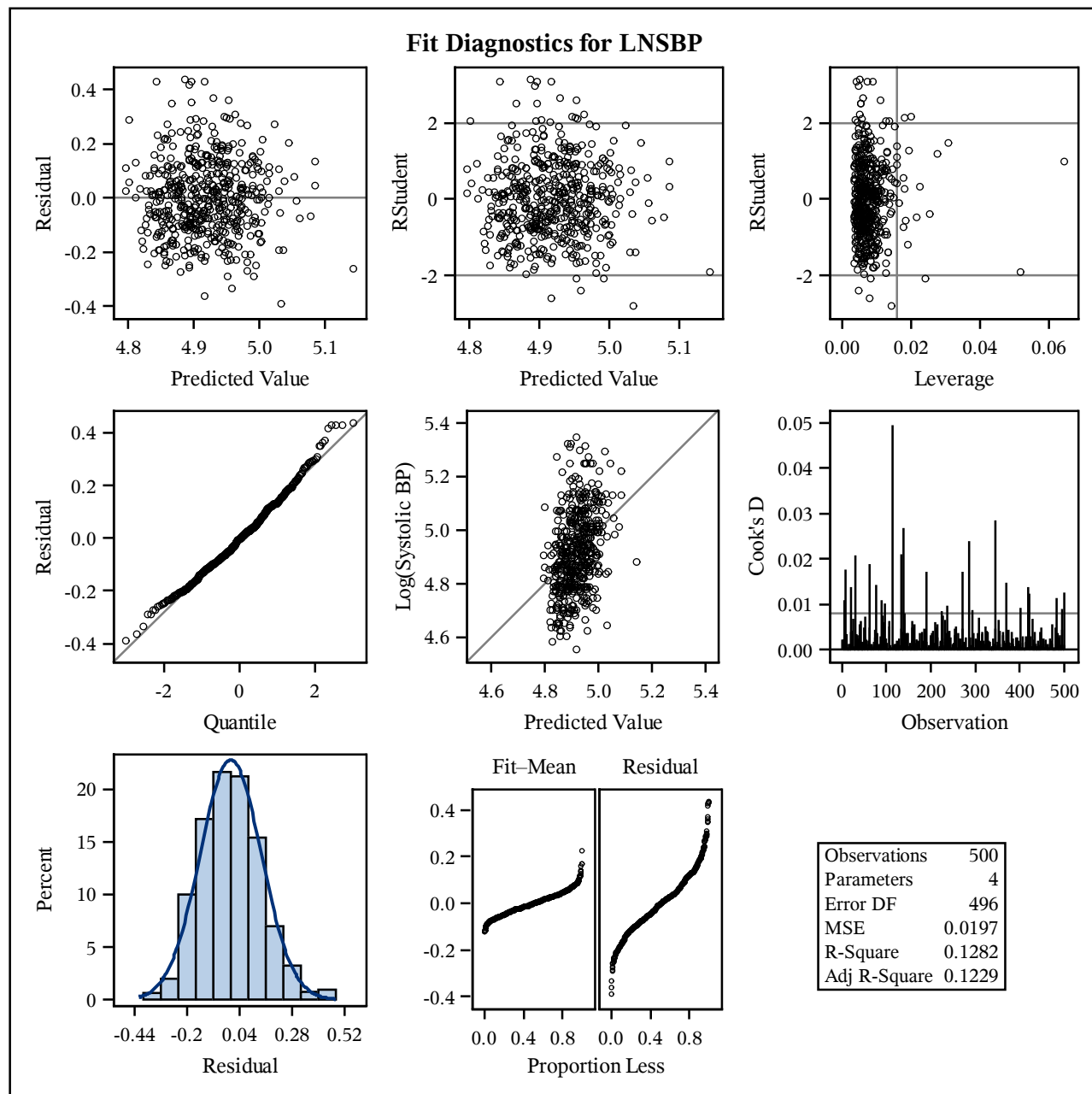
Number of Observations Read	500
Number of Observations Used	500

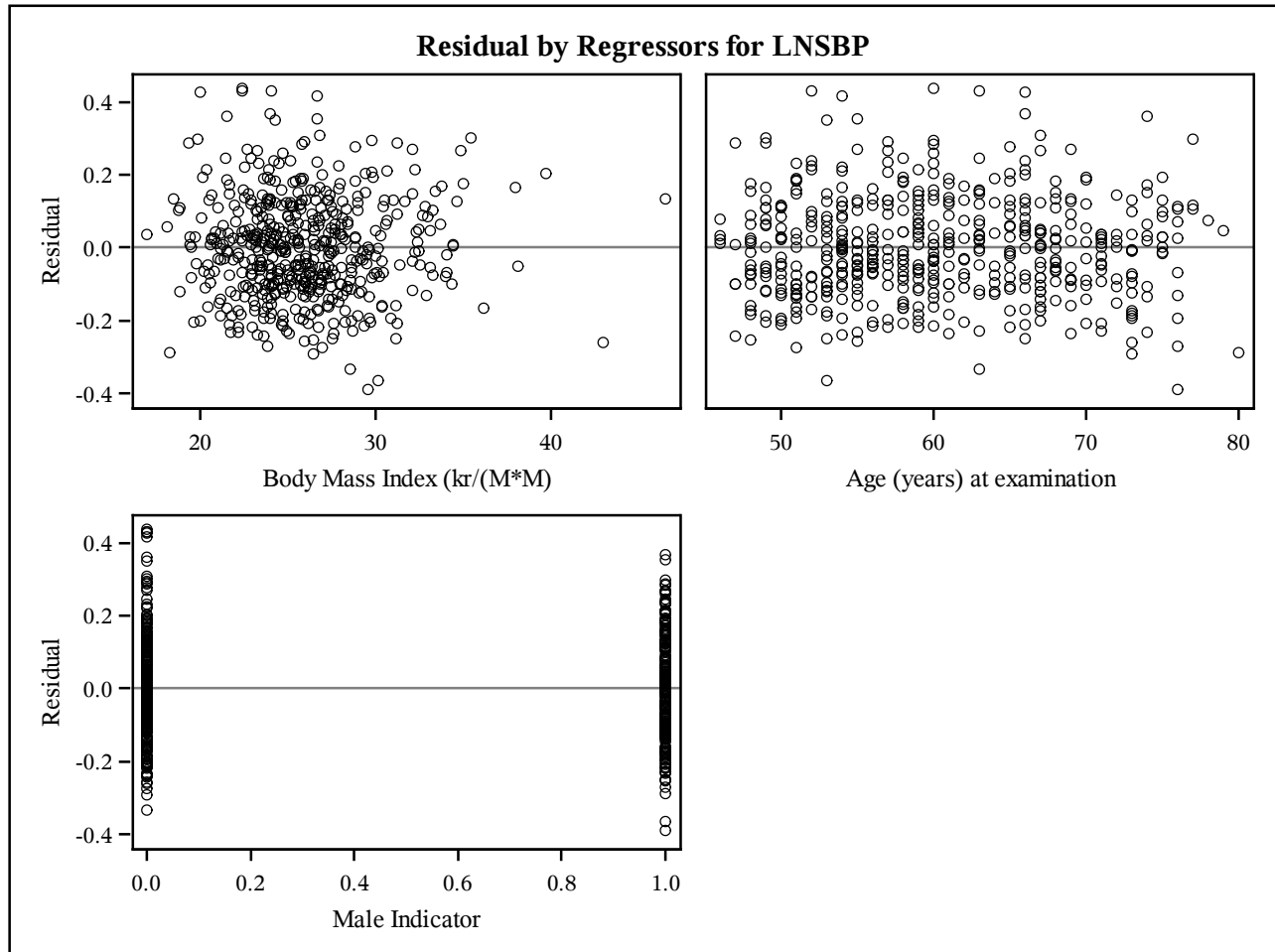
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.44034	0.48011	24.32	<.0001
Error	496	9.79311	0.01974		
Corrected Total	499	11.23345			

Root MSE	0.14051	R-Square	0.1282
Dependent Mean	4.91832	Adj R-Sq	0.1229
Coeff Var	2.85695		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	4.36458	0.06564	66.50	<.0001
BMI	Body Mass Index (kr/(M*M))	1	0.00912	0.00167	5.47	<.0001
AGE	Age (years) at examination	1	0.00529	0.00077509	6.83	<.0001
MALE	Male Indicator	1	-0.00300	0.01269	-0.24	0.8135

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: LNSBP Log(Systolic BP)**



**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

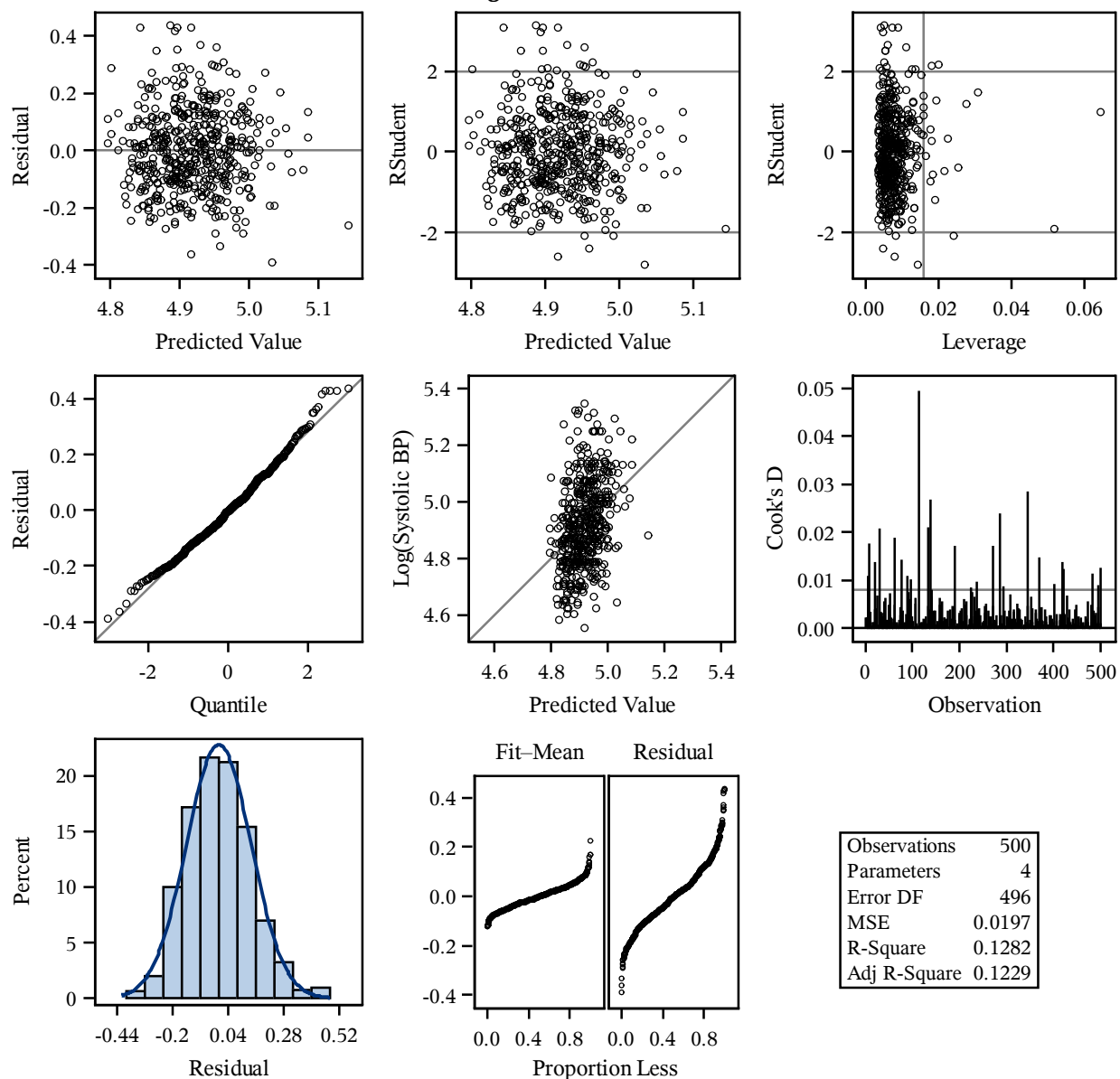
Number of Observations Read	500
Number of Observations Used	500

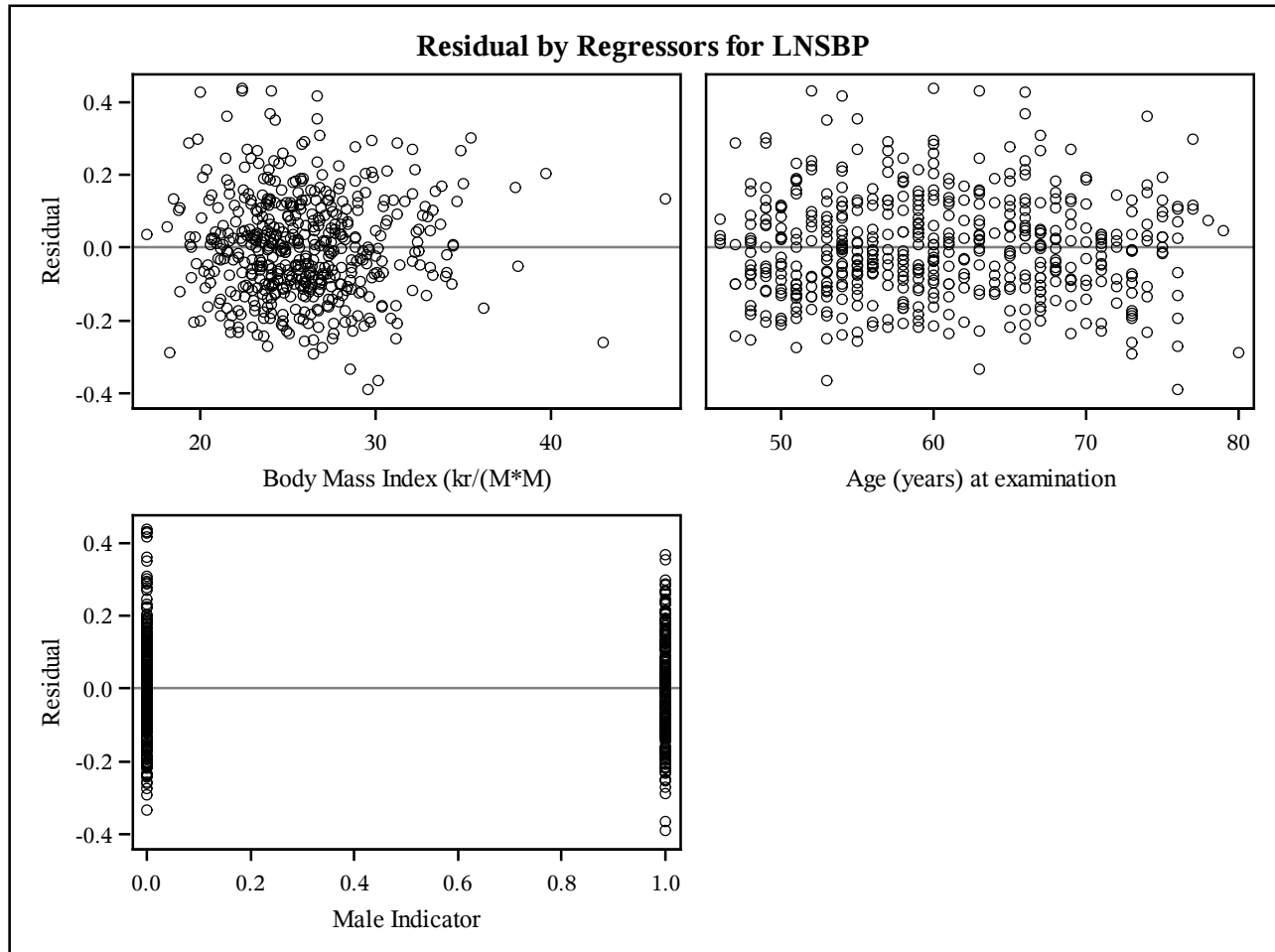
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.44034	0.48011	24.32	<.0001
Error	496	9.79311	0.01974		
Corrected Total	499	11.23345			

Root MSE	0.14051	R-Square	0.1282
Dependent Mean	4.91832	Adj R-Sq	0.1229
Coeff Var	2.85695		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	95% Confidence Limits	
Intercept	Intercept	1	4.36458	0.06564	66.50	<.0001	4.23562	4.49354
BMI	Body Mass Index (kr/(M*M))	1	0.00912	0.00167	5.47	<.0001	0.00584	0.01239
AGE	Age (years) at examination	1	0.00529	0.00077509	6.83	<.0001	0.00377	0.00682
MALE	Male Indicator	1	-0.00300	0.01269	-0.24	0.8135	-0.02793	0.02194



**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)****Fit Diagnostics for LNSBP**

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

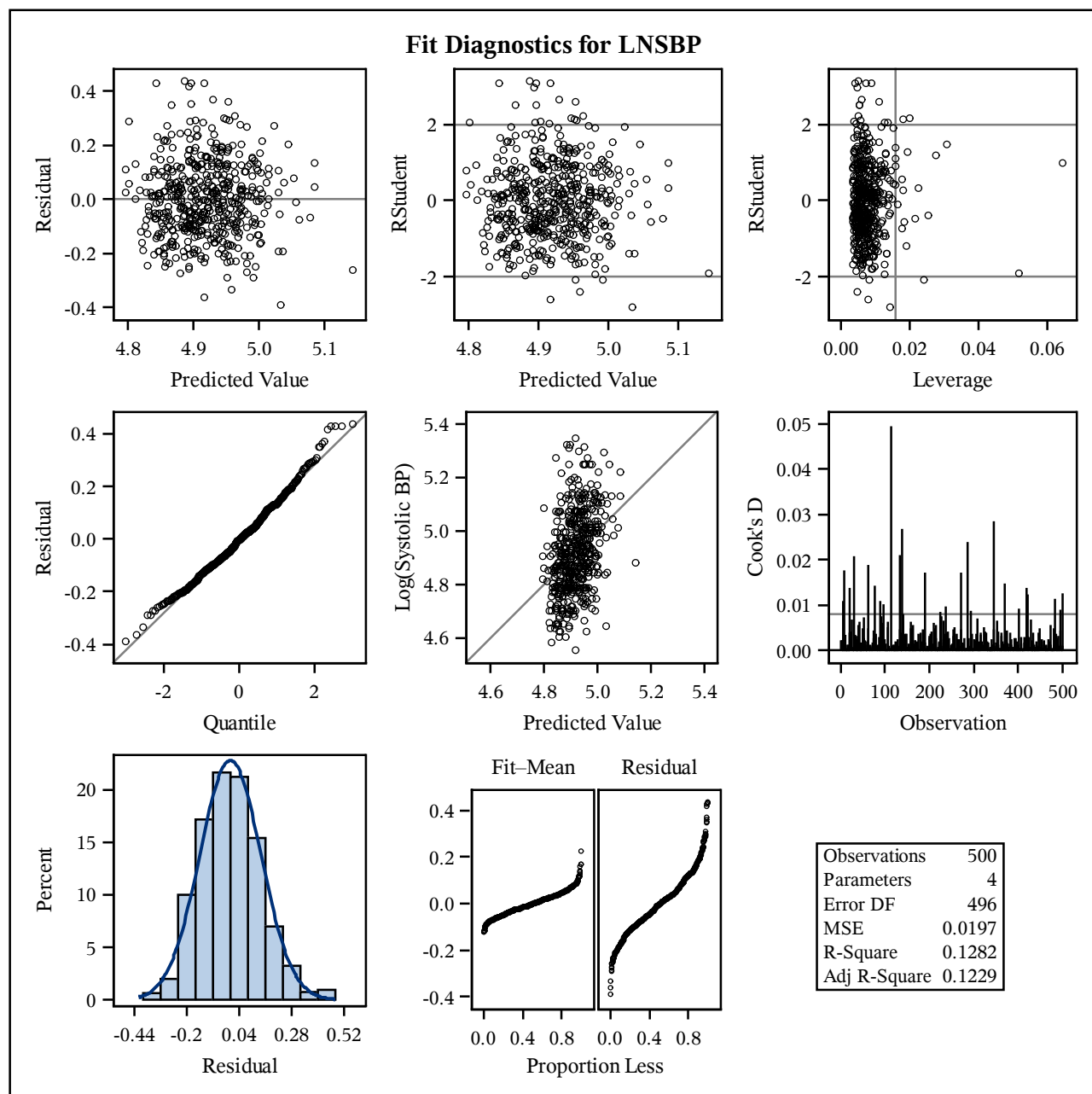
**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

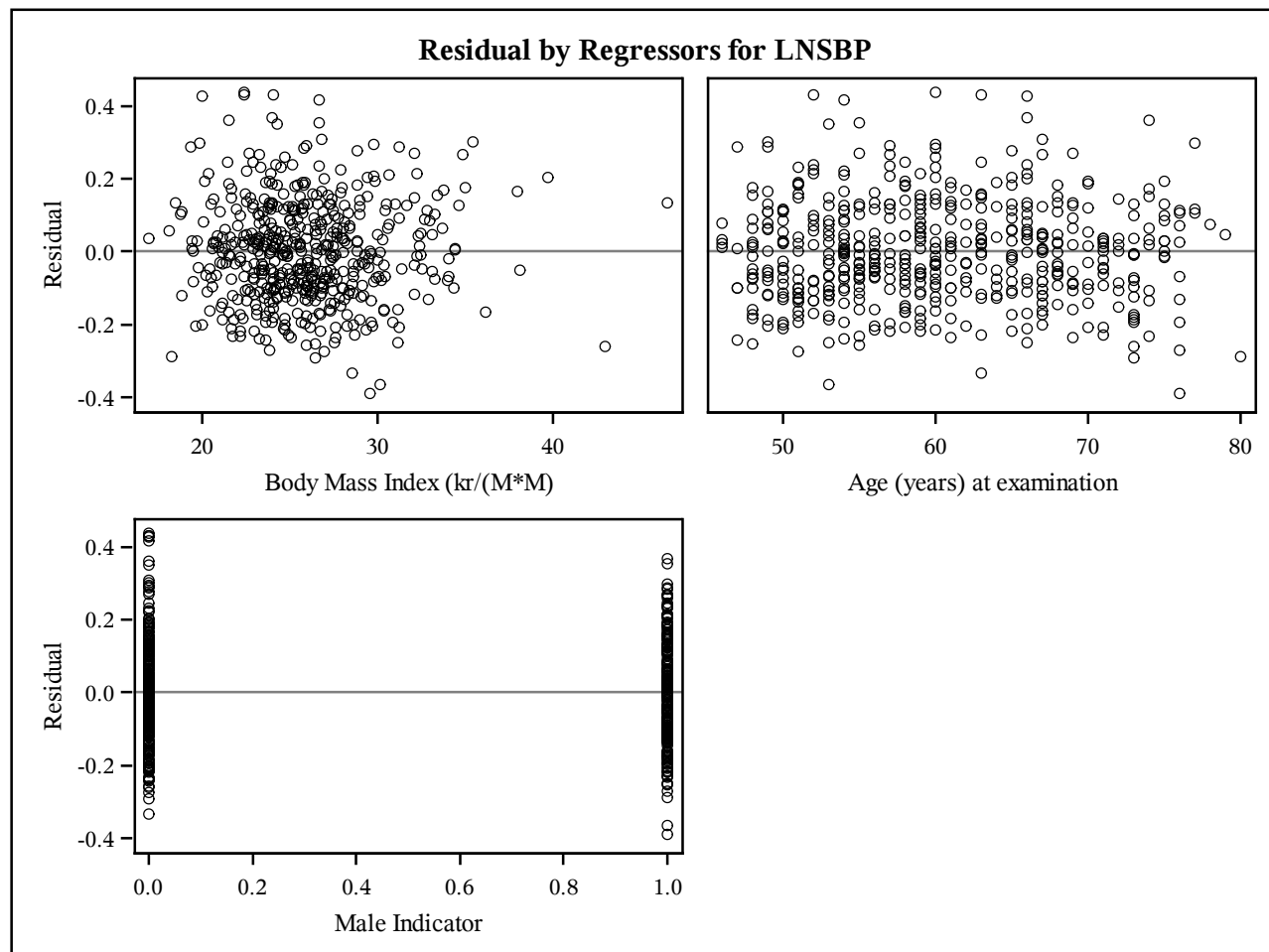
Number of Observations Read	500
Number of Observations Used	500

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.44034	0.48011	24.32	<.0001
Error	496	9.79311	0.01974		
Corrected Total	499	11.23345			

Root MSE	0.14051	R-Square	0.1282
Dependent Mean	4.91832	Adj R-Sq	0.1229
Coeff Var	2.85695		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	4.36458	0.06564	66.50	<.0001
BMI	Body Mass Index (kr/(M*M))	1	0.00912	0.00167	5.47	<.0001
AGE	Age (years) at examination	1	0.00529	0.00077509	6.83	<.0001
MALE	Male Indicator	1	-0.00300	0.01269	-0.24	0.8135

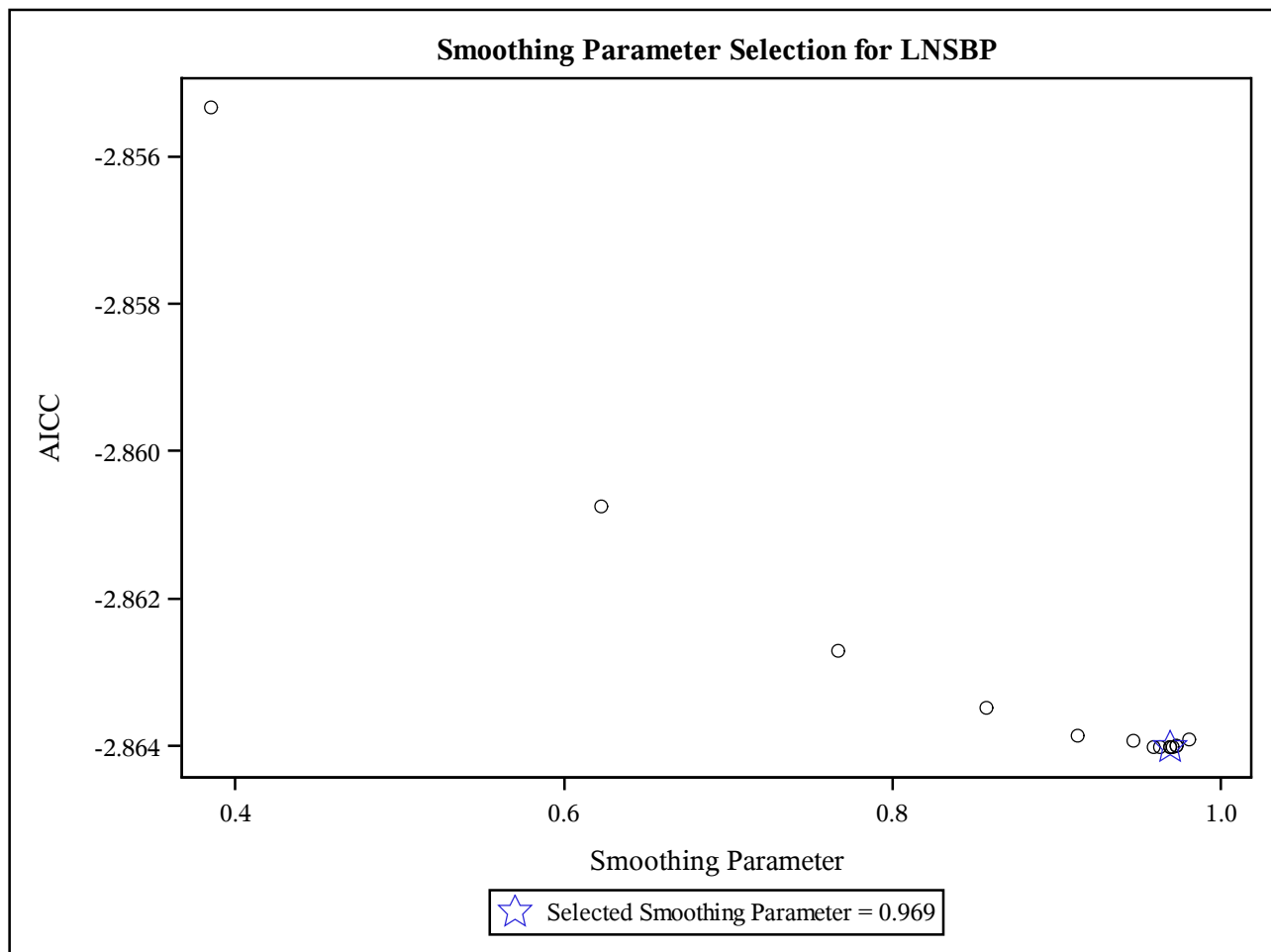
**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

**The REG Procedure****Model: MODEL1****Dependent Variable: LNSBP Log(Systolic BP)**

*The LOESS Procedure*

Independent Variable Scaling	
Scaling applied: None	
Statistic	Age (years) at examination
Minimum Value	46
Maximum Value	80

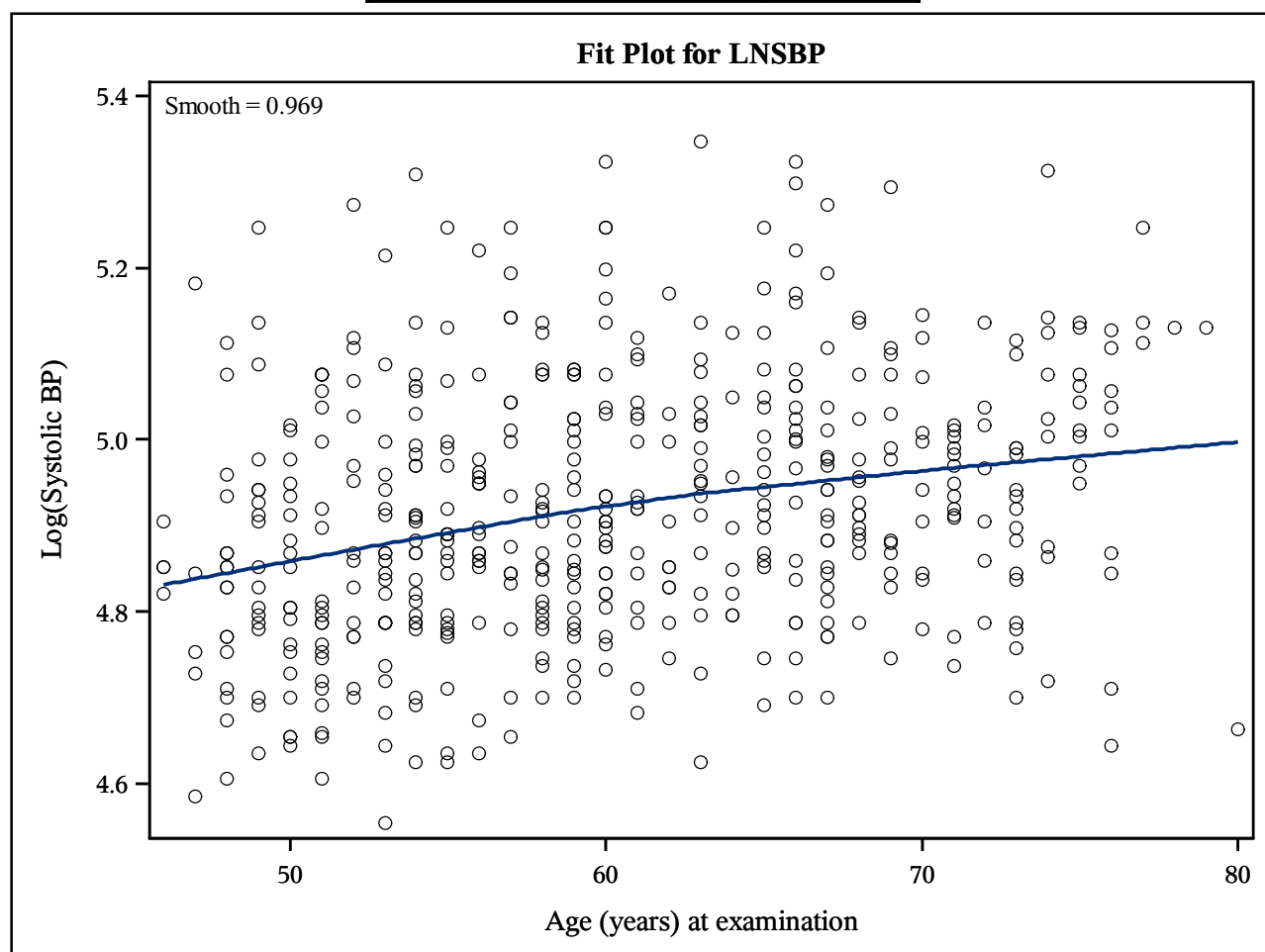
**The LOESS Procedure**  
**Dependent Variable: LNSBP**



Optimal Smoothing Criterion	
AICC	Smoothing Parameter
-2.86402	0.96900

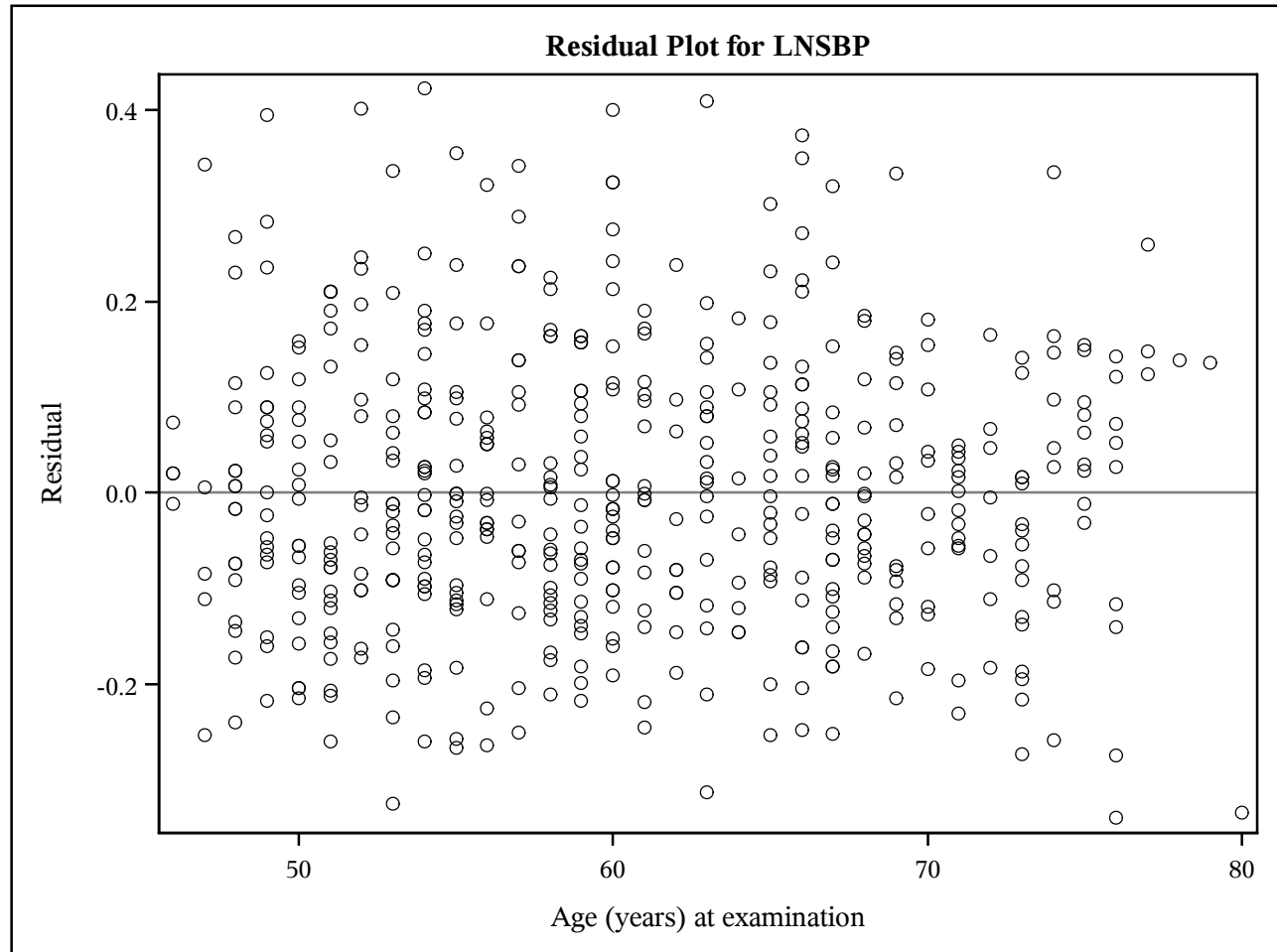
**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.969**  
**Dependent Variable: LNSBP**

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	500
Number of Fitting Points	9
kd Tree Bucket Size	96
Degree of Local Polynomials	1
Smoothing Parameter	0.96900
Points in Local Neighborhood	484
Residual Sum of Squares	10.34075
Trace[L]	2.59055
GCV	0.00004179
AICC	-2.86402

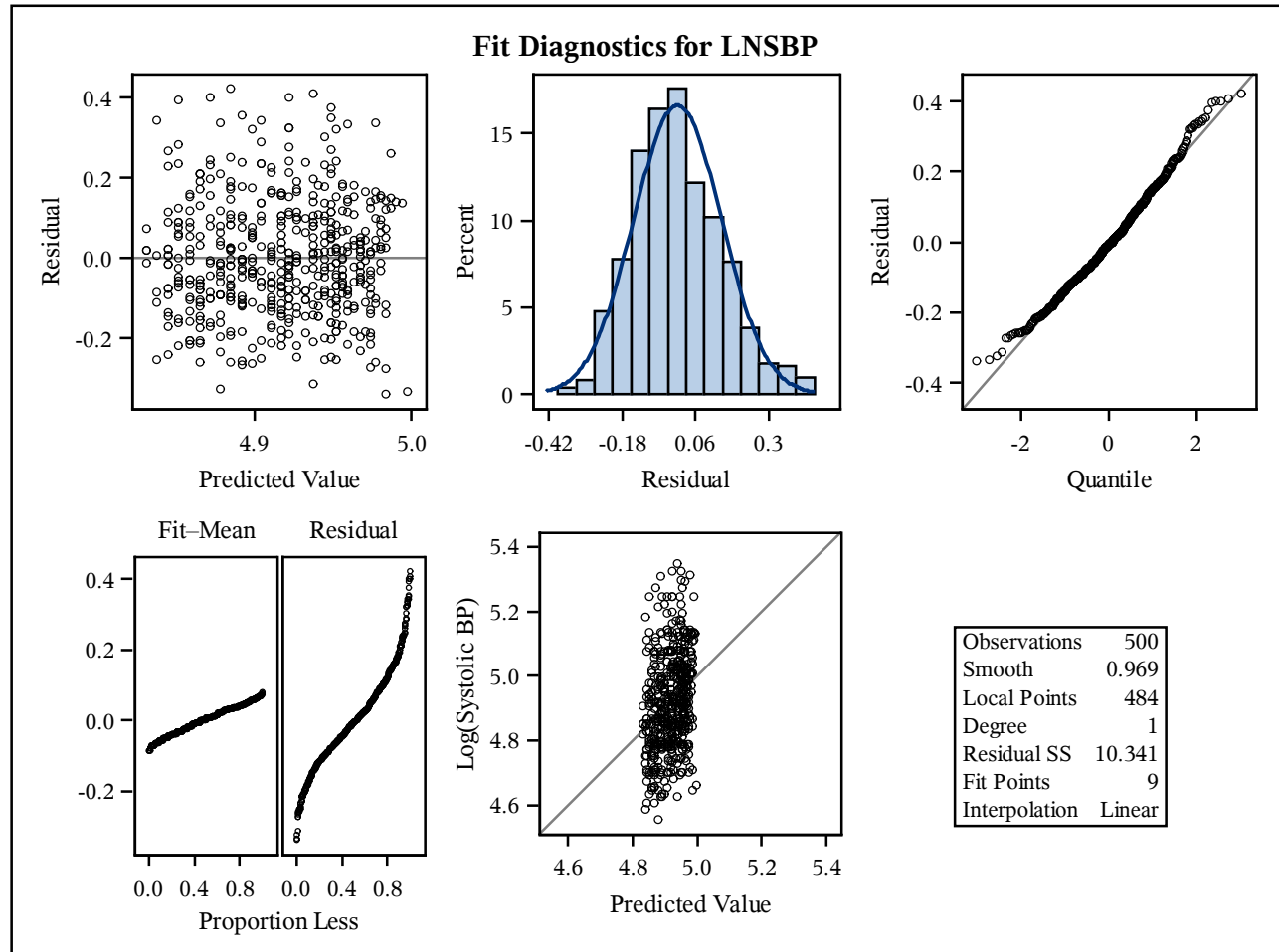




***The LOESS Procedure***  
***Selected Smoothing Parameter: 0.969***  
***Dependent Variable: LNSBP***



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.969**  
**Dependent Variable: LNSBP**



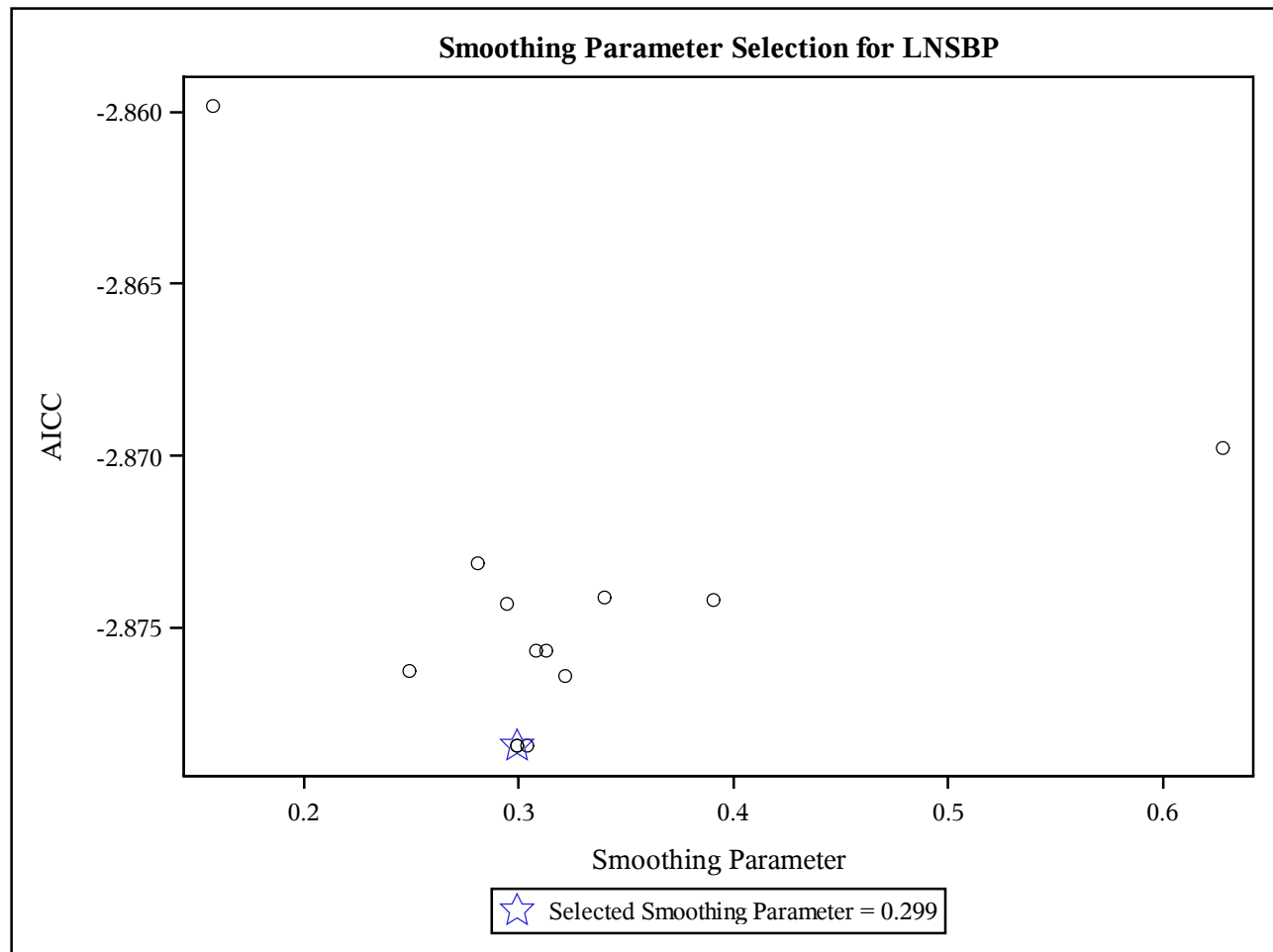
***The LOESS Procedure***

Female Indicator=0

Independent Variable Scaling	
Scaling applied: None	
Statistic	Age (years) at examination
Minimum Value	47
Maximum Value	80

**The LOESS Procedure**  
**Dependent Variable: LNSBP**

Female Indicator=0

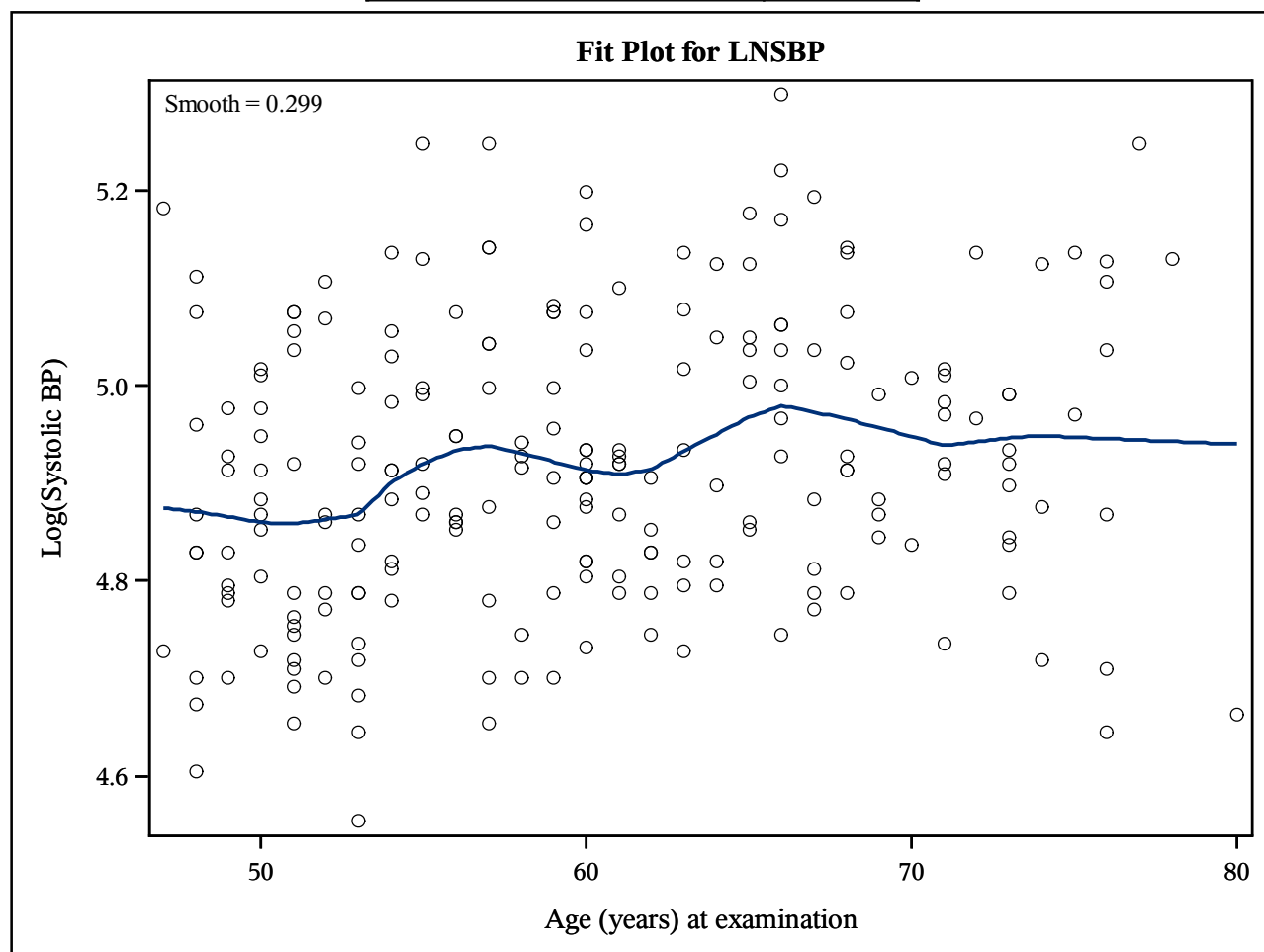


Optimal Smoothing Criterion	
AICC	Smoothing Parameter
-2.87844	0.29909

**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.299**  
**Dependent Variable: LNSBP**

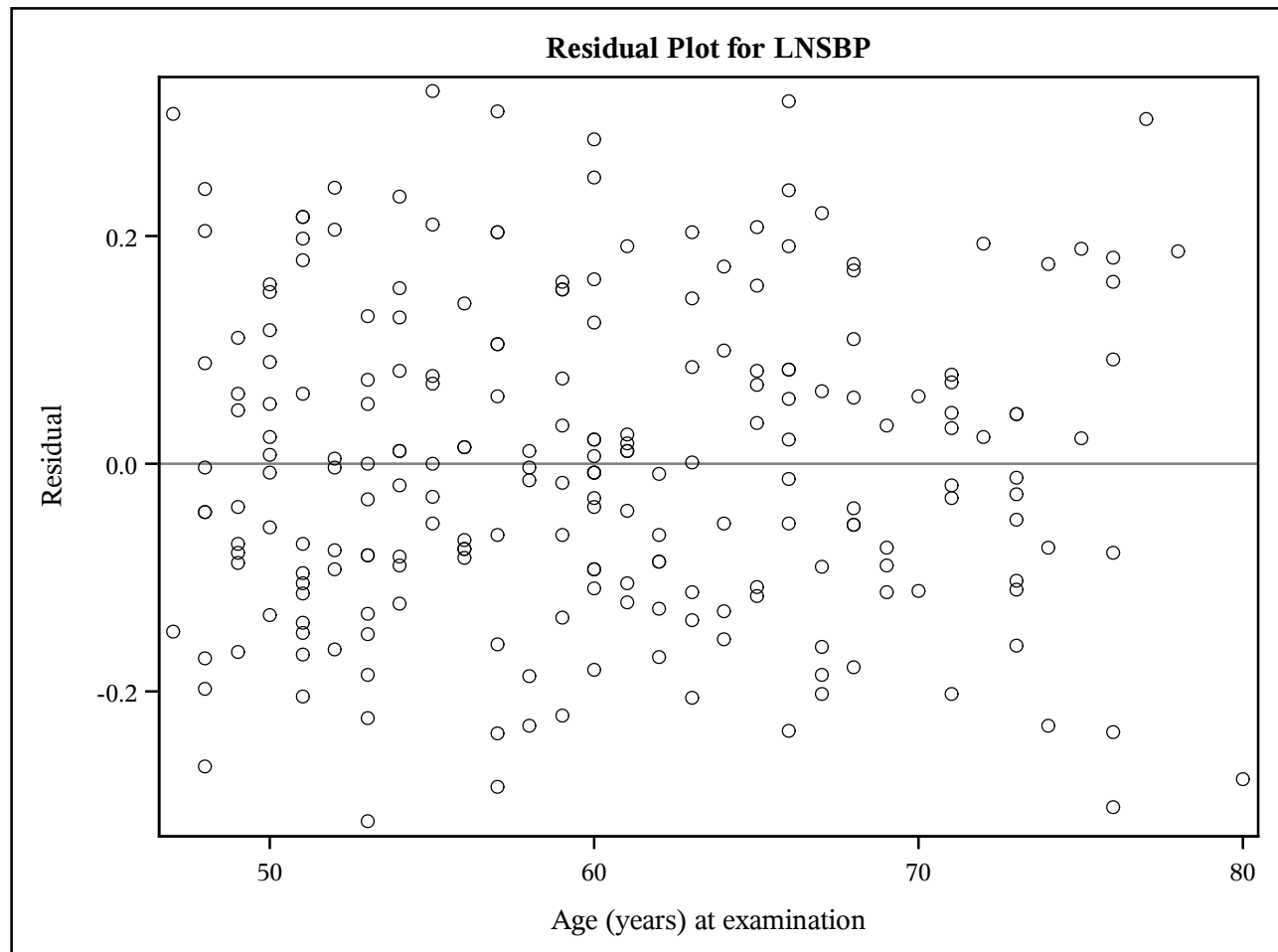
Female Indicator=0

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	219
Number of Fitting Points	23
kd Tree Bucket Size	13
Degree of Local Polynomials	1
Smoothing Parameter	0.29909
Points in Local Neighborhood	65
Residual Sum of Squares	4.19770
Trace[L]	6.99000
GCV	0.00009339
AICC	-2.87844



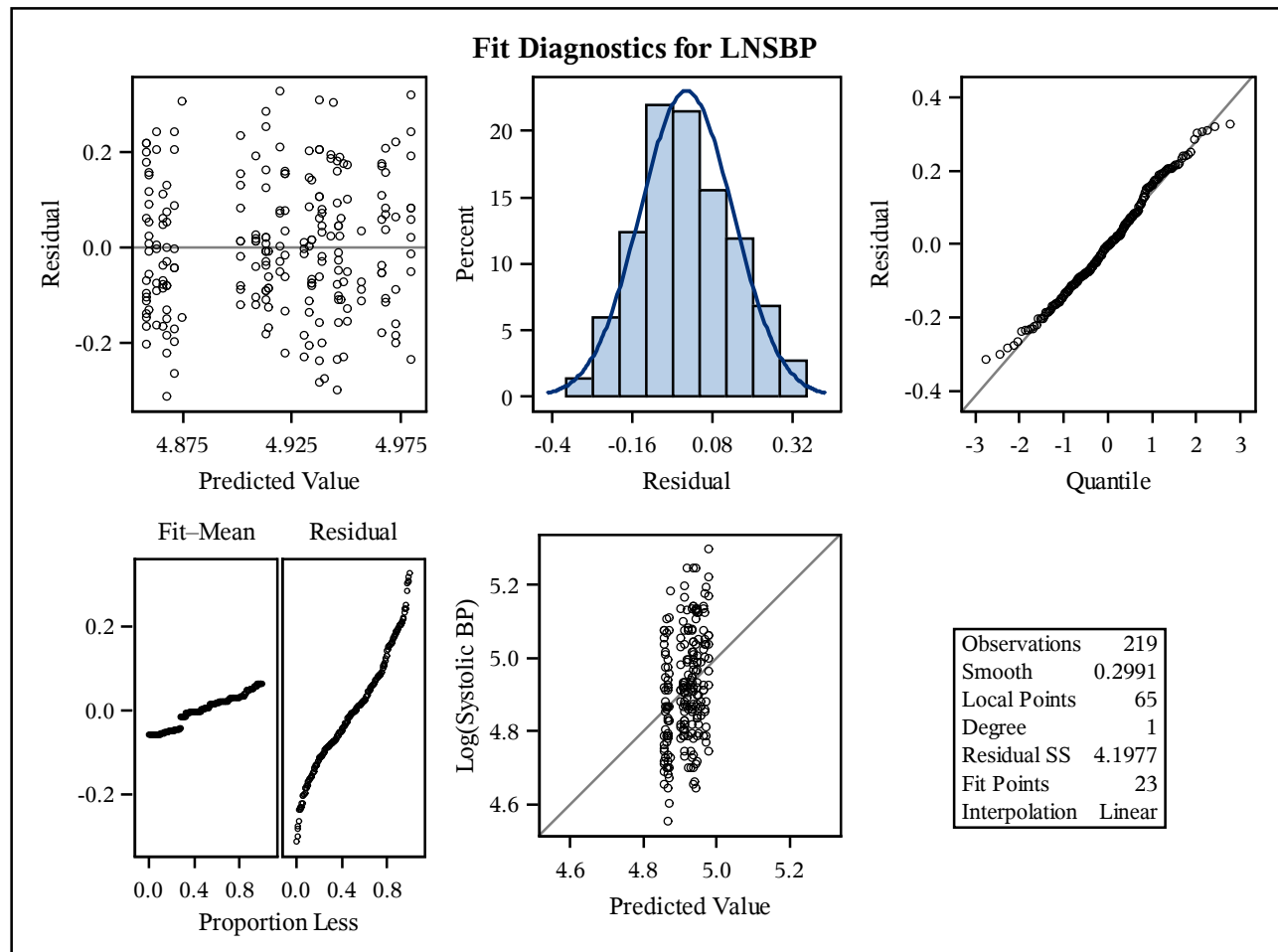
**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.299**  
**Dependent Variable: LNSBP**

Female Indicator=0



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.299**  
**Dependent Variable: LNSBP**

Female Indicator=0



*The LOESS Procedure*

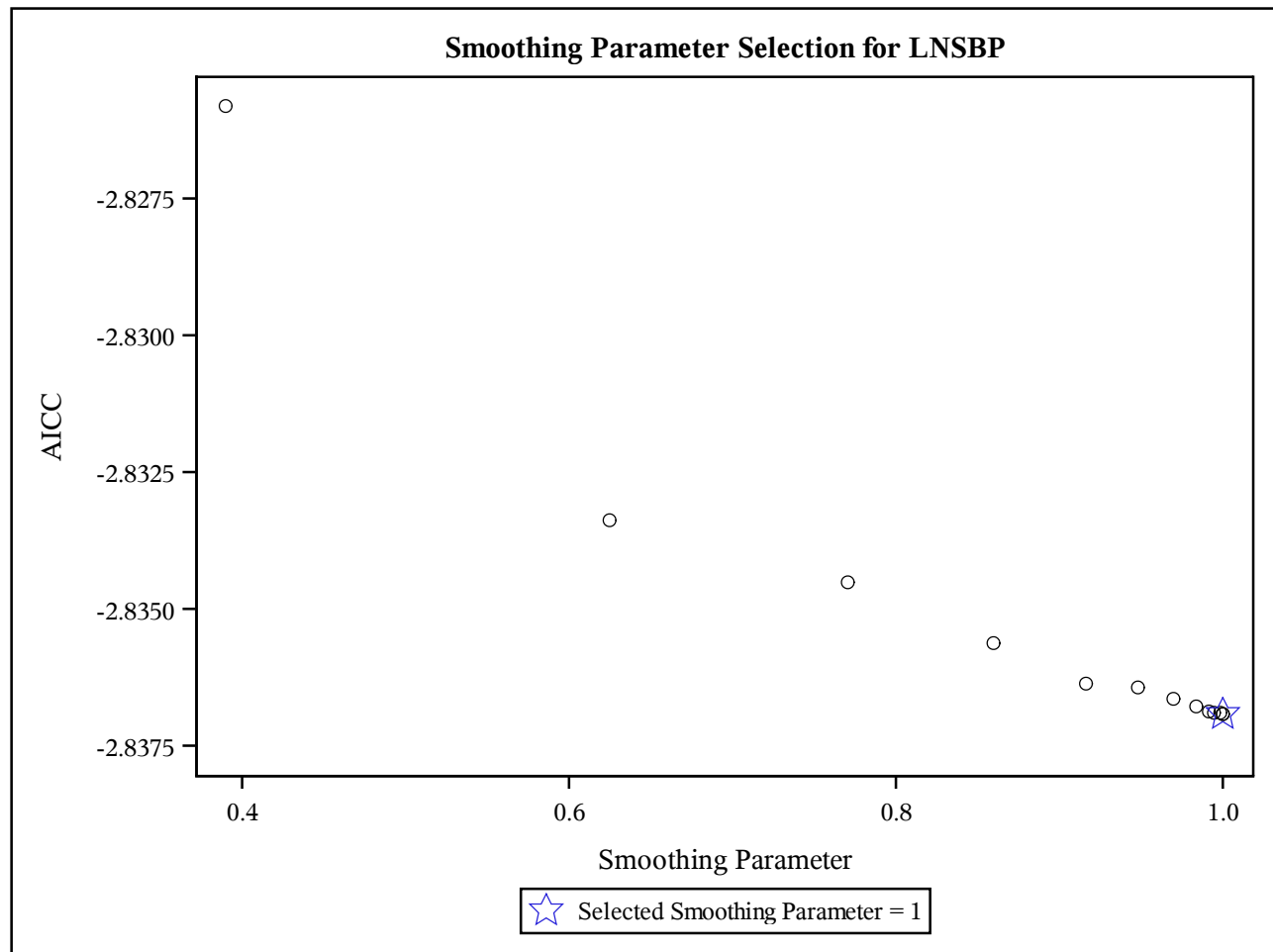
Female Indicator=1

Independent Variable Scaling	
Scaling applied: None	
Statistic	Age (years) at examination
Minimum Value	46
Maximum Value	79



**The LOESS Procedure**  
**Dependent Variable: LNSBP**

Female Indicator=1

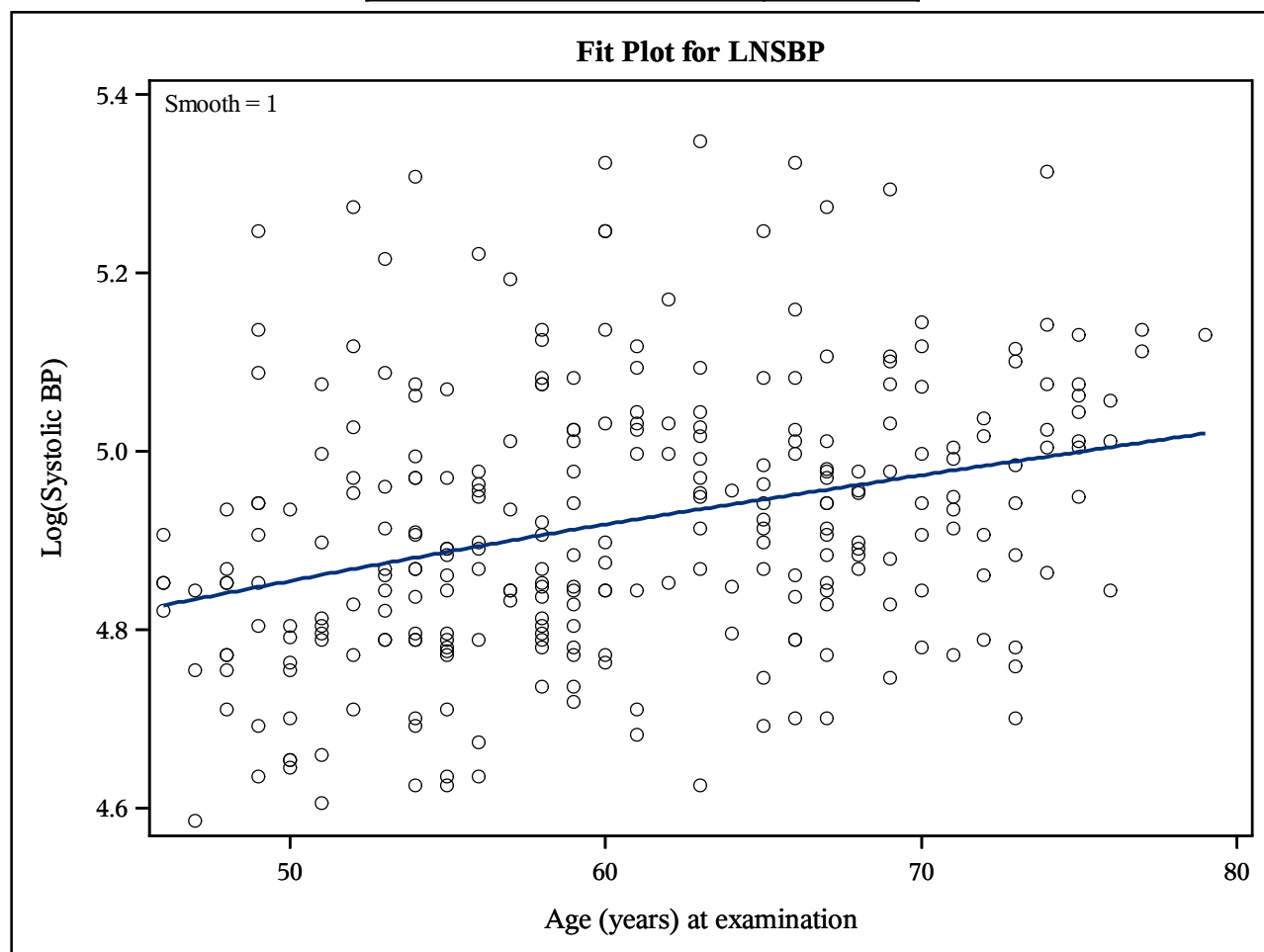


Optimal Smoothing Criterion	
AICC	Smoothing Parameter
-2.83691	1.00000

**The LOESS Procedure**  
**Selected Smoothing Parameter: 1**  
**Dependent Variable: LNSBP**

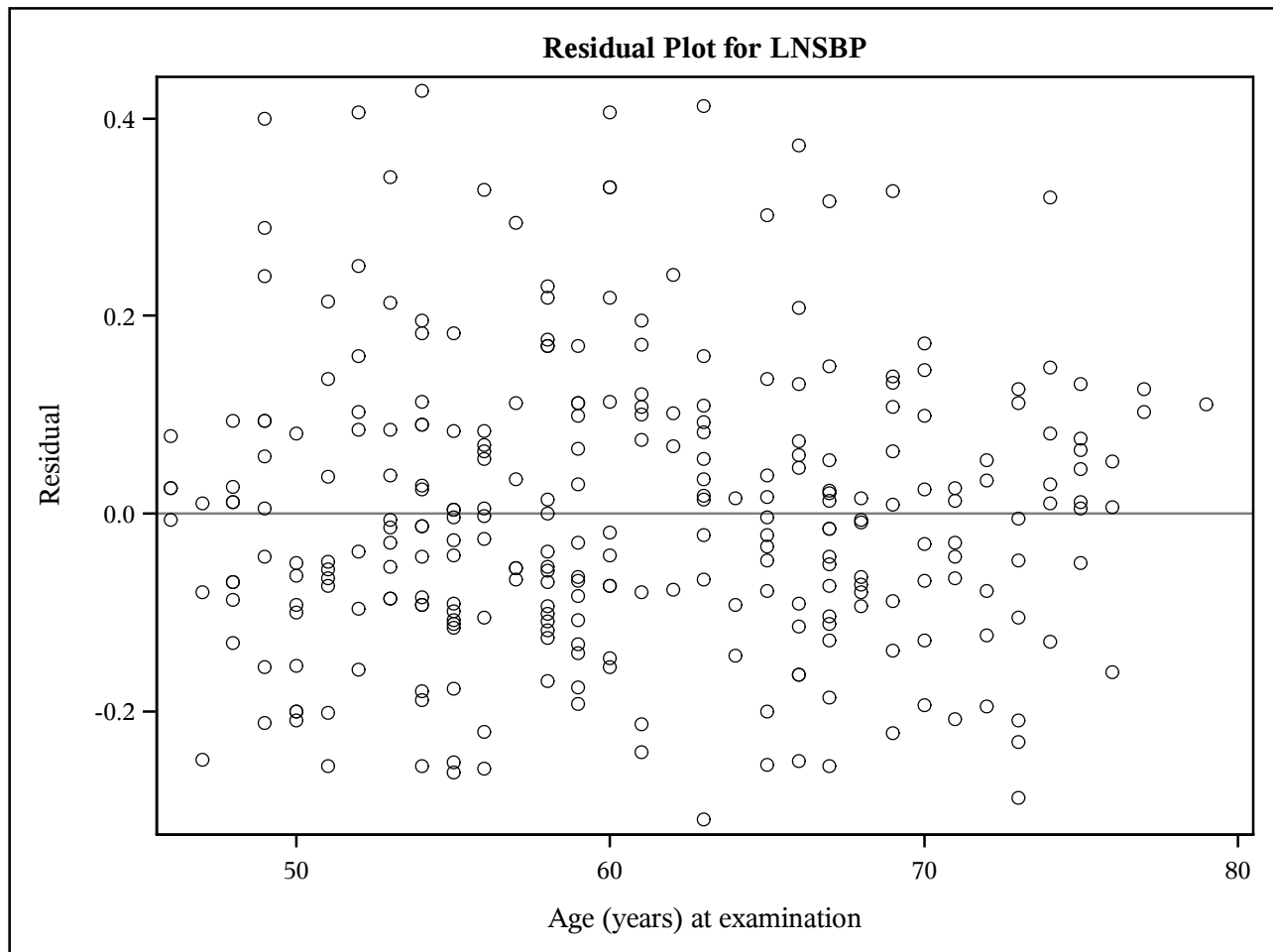
Female Indicator=1

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	281
Number of Fitting Points	9
kd Tree Bucket Size	56
Degree of Local Polynomials	1
Smoothing Parameter	1.00000
Points in Local Neighborhood	281
Residual Sum of Squares	5.91069
Trace[L]	2.41310
GCV	0.00007616
AICC	-2.83691



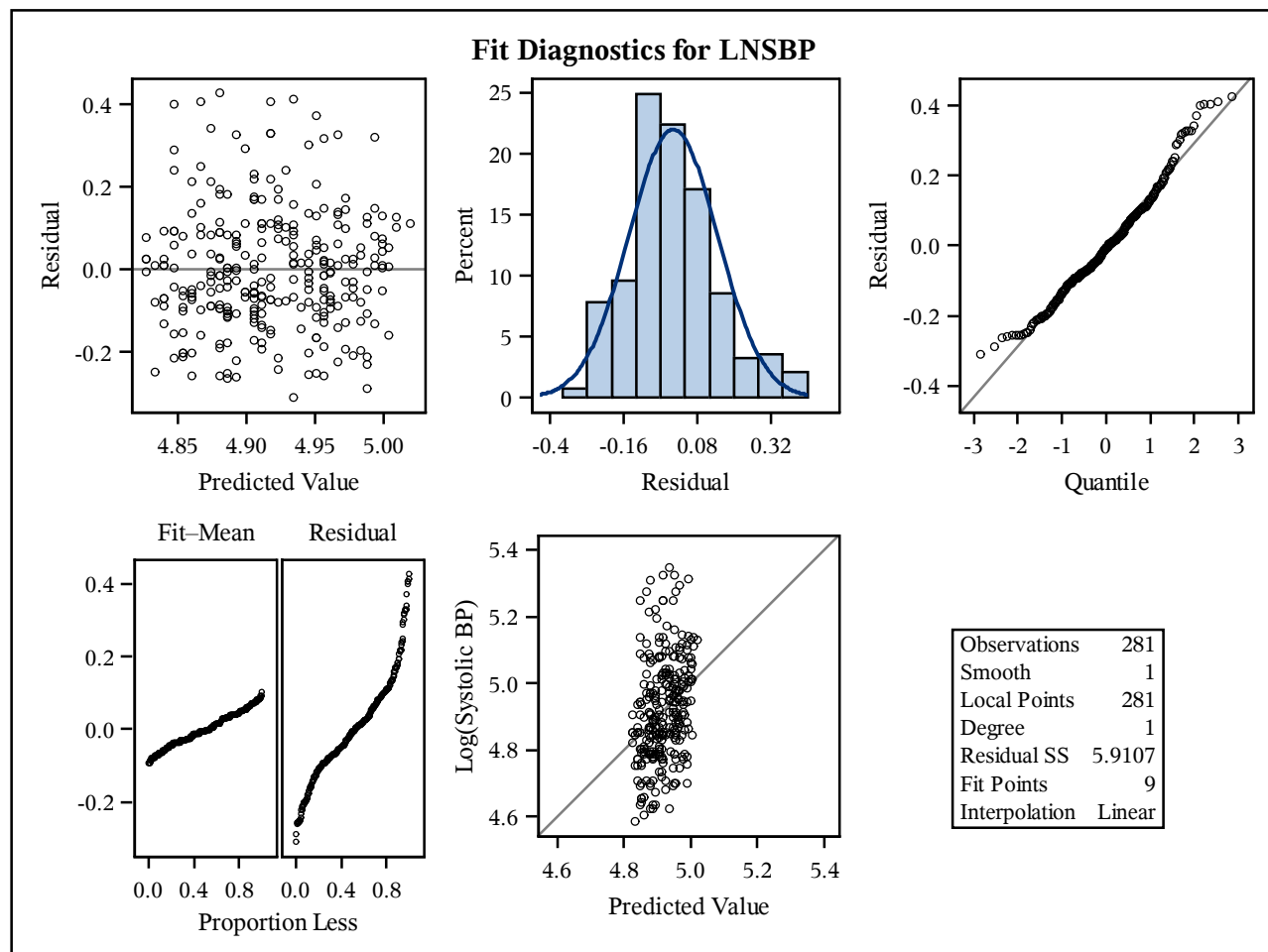
**The LOESS Procedure**  
**Selected Smoothing Parameter: 1**  
**Dependent Variable: LNSBP**

Female Indicator=1



**The LOESS Procedure**  
**Selected Smoothing Parameter: 1**  
**Dependent Variable: LNSBP**

Female Indicator=1



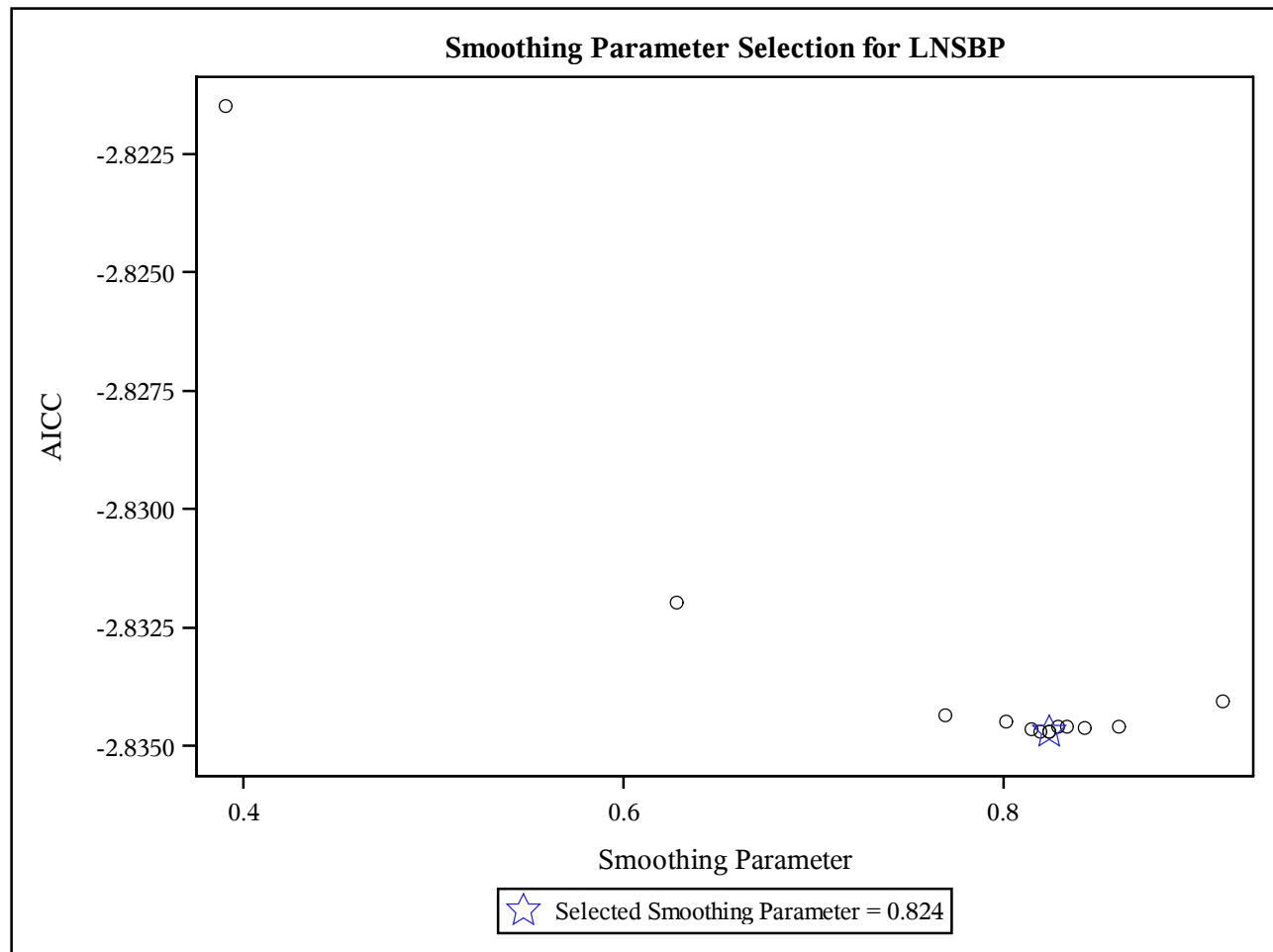
***The LOESS Procedure***

Female Indicator=0

Independent Variable Scaling	
Scaling applied: None	
Statistic	Body Mass Index ( $\text{kg}/(\text{M}^2)$ )
Minimum Value	18.09
Maximum Value	35.02

**The LOESS Procedure**  
**Dependent Variable: LNSBP**

Female Indicator=0

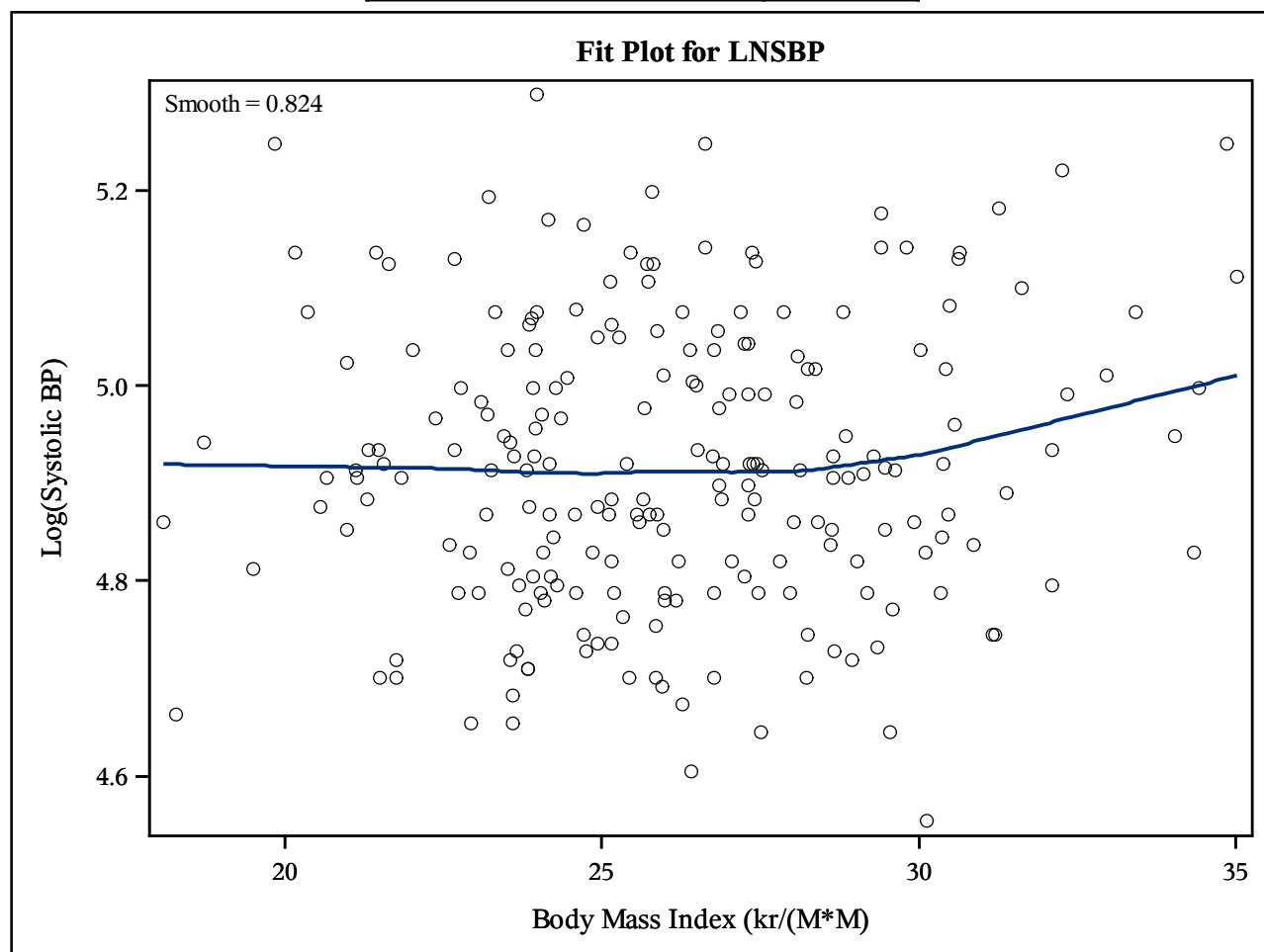


Optimal Smoothing Criterion	
AICC	Smoothing Parameter
-2.83471	0.82420

**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.824**  
**Dependent Variable: LNSBP**

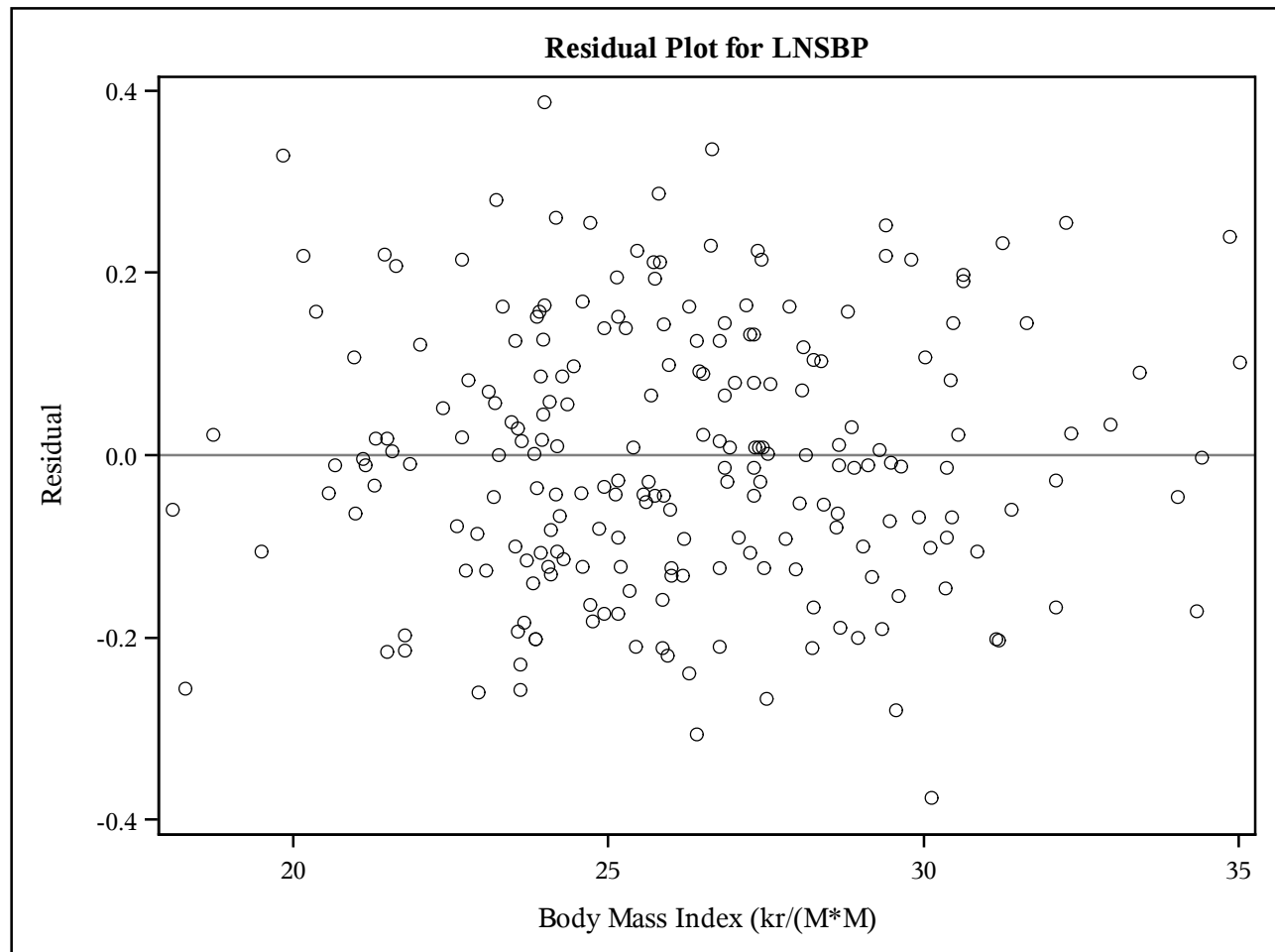
Female Indicator=0

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	219
Number of Fitting Points	9
kd Tree Bucket Size	36
Degree of Local Polynomials	1
Smoothing Parameter	0.82420
Points in Local Neighborhood	180
Residual Sum of Squares	4.53792
Trace[L]	3.47236
GCV	0.00009769
AICC	-2.83471



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.824**  
**Dependent Variable: LNSBP**

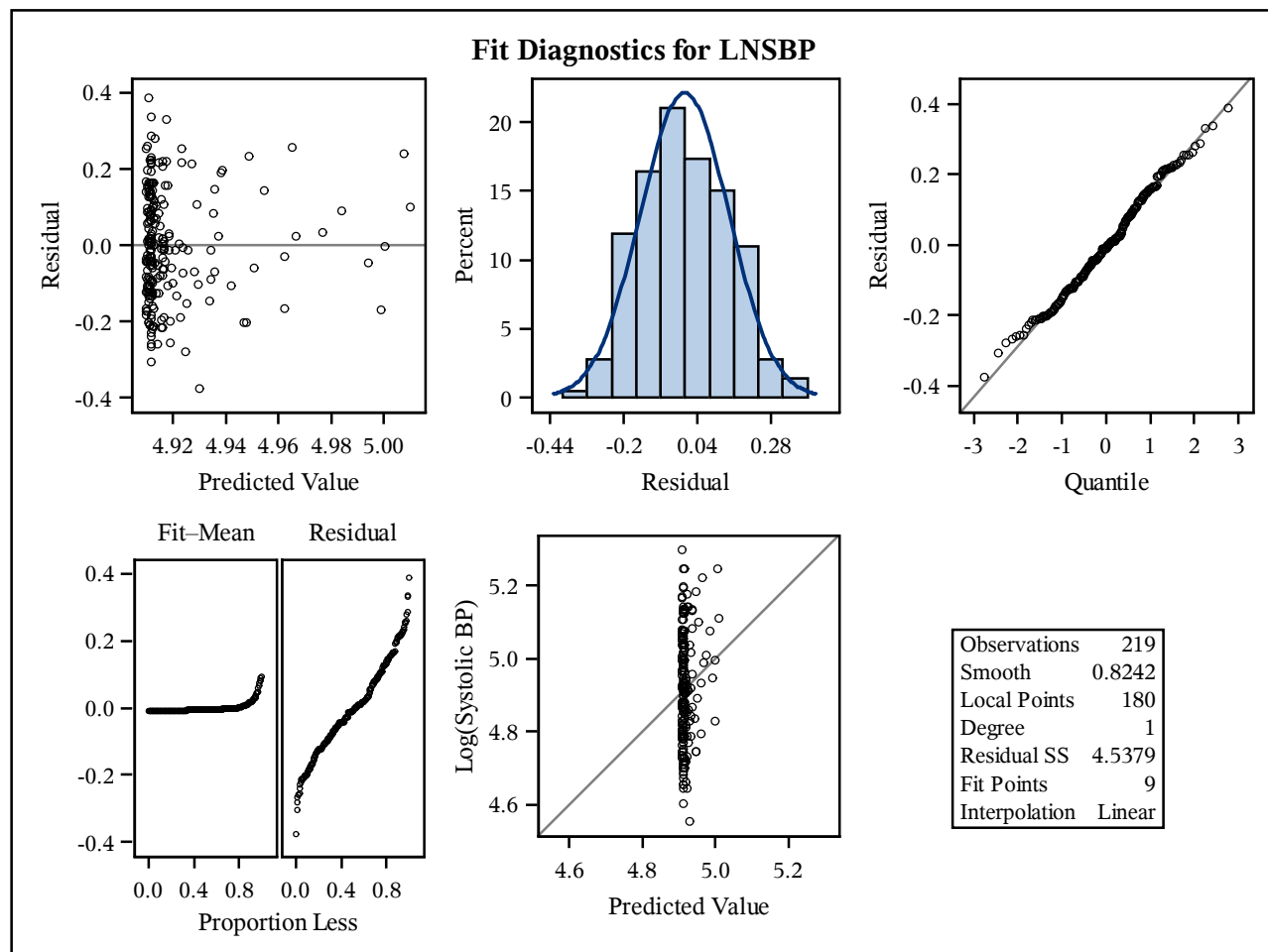
Female Indicator=0





**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.824**  
**Dependent Variable: LNSBP**

Female Indicator=0

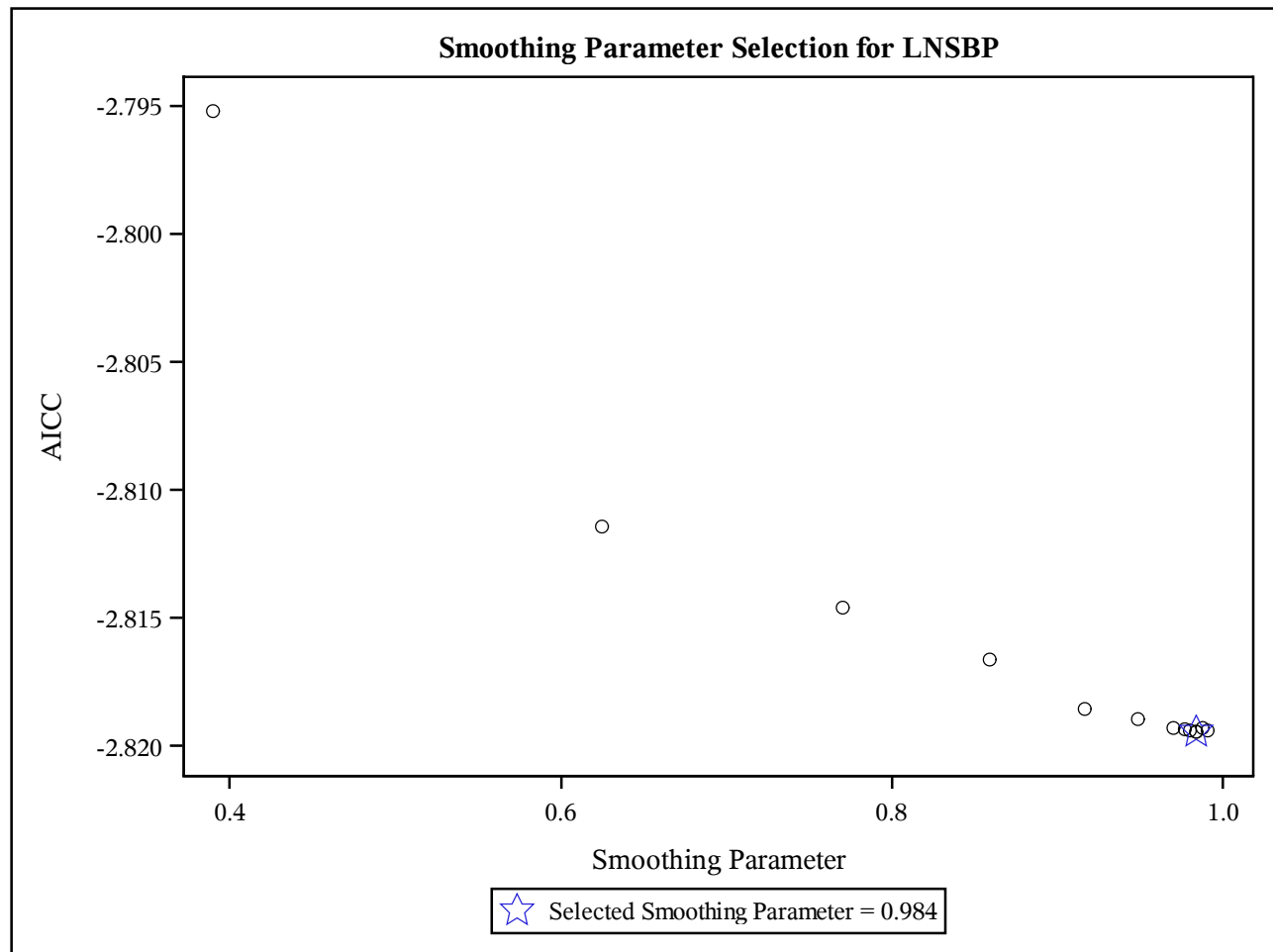


***The LOESS Procedure*****Female Indicator=1**

Independent Variable Scaling	
Scaling applied: None	
Statistic	Body Mass Index ( $\text{kg}/(\text{M}^2)$ )
Minimum Value	16.95
Maximum Value	46.52

**The LOESS Procedure**  
**Dependent Variable: LNSBP**

Female Indicator=1

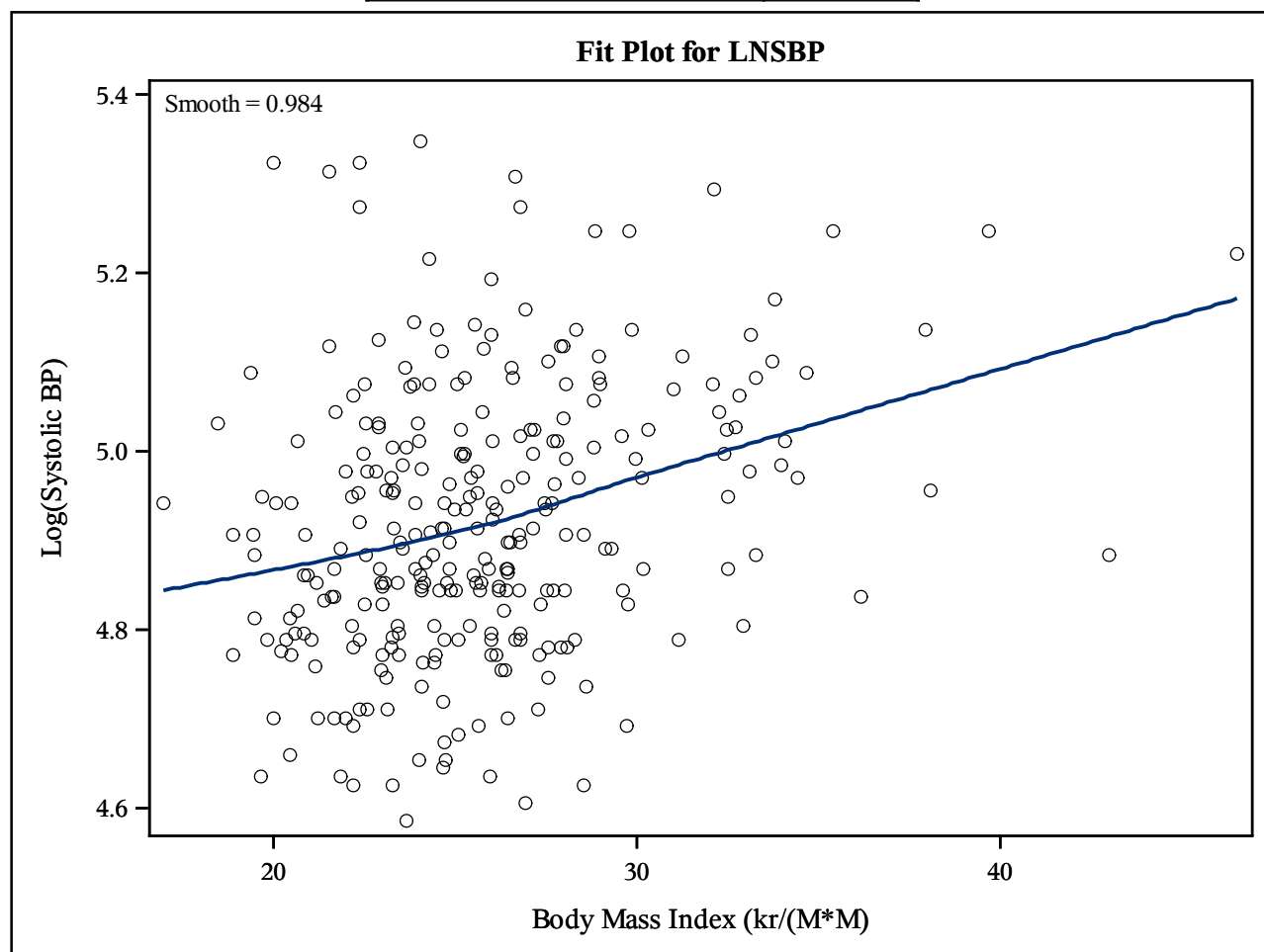


Optimal Smoothing Criterion	
AICC	Smoothing Parameter
-2.81947	0.98399

**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.984**  
**Dependent Variable: LNSBP**

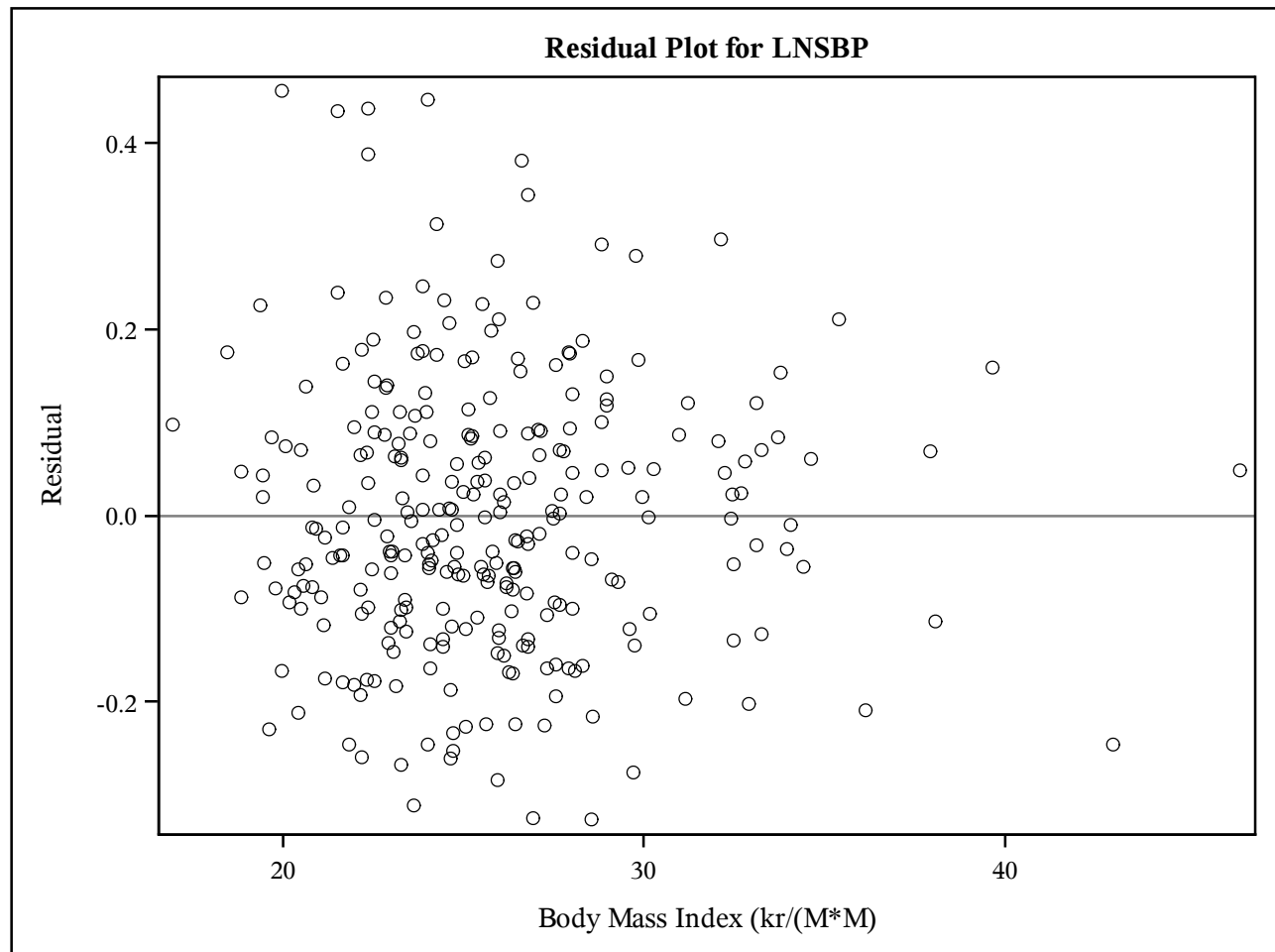
Female Indicator=1

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	281
Number of Fitting Points	9
kd Tree Bucket Size	55
Degree of Local Polynomials	1
Smoothing Parameter	0.98399
Points in Local Neighborhood	276
Residual Sum of Squares	5.99598
Trace[L]	2.83829
GCV	0.00007749
AICC	-2.81947



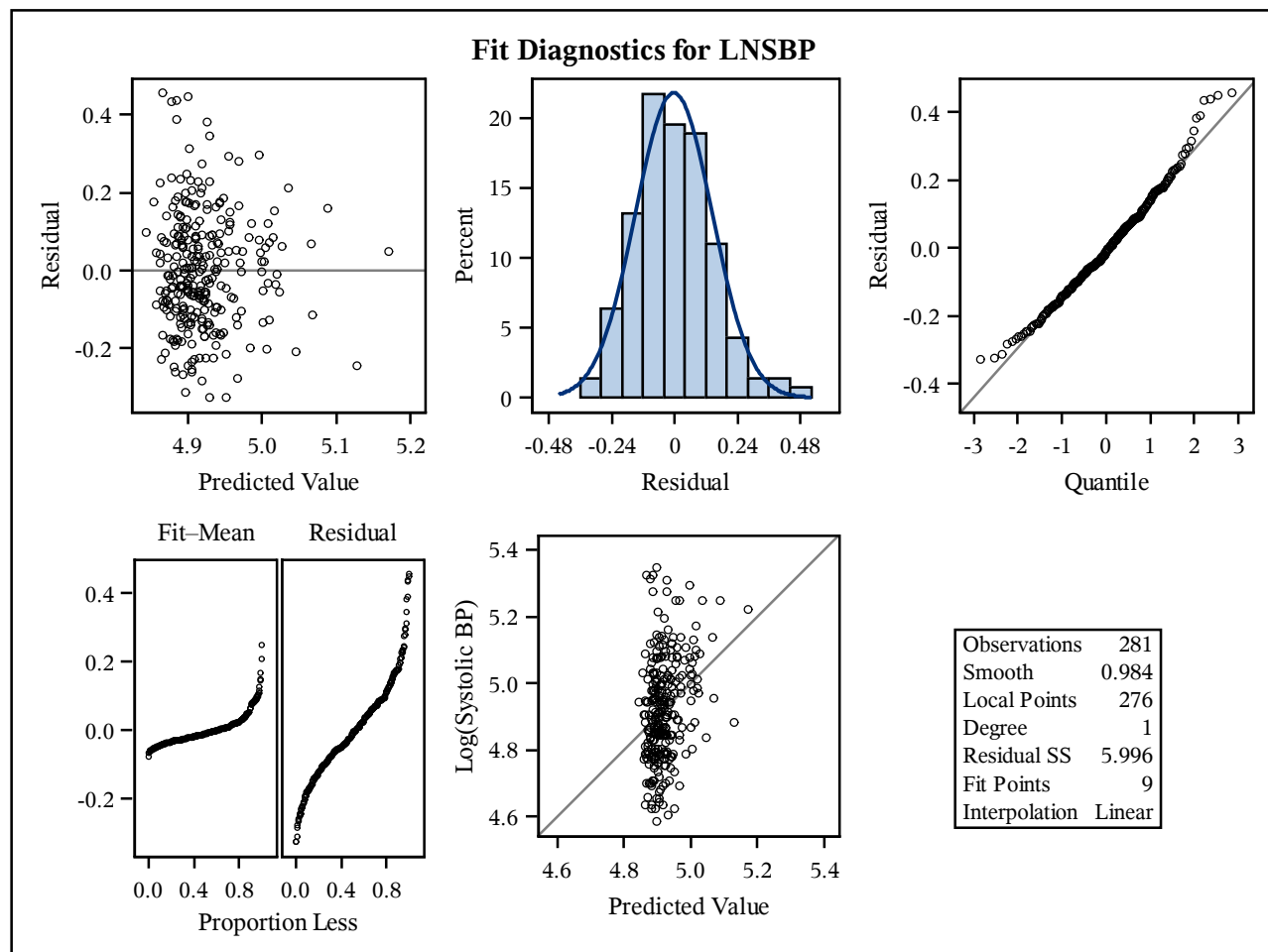
**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.984**  
**Dependent Variable: LNSBP**

Female Indicator=1



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.984**  
**Dependent Variable: LNSBP**

Female Indicator=1



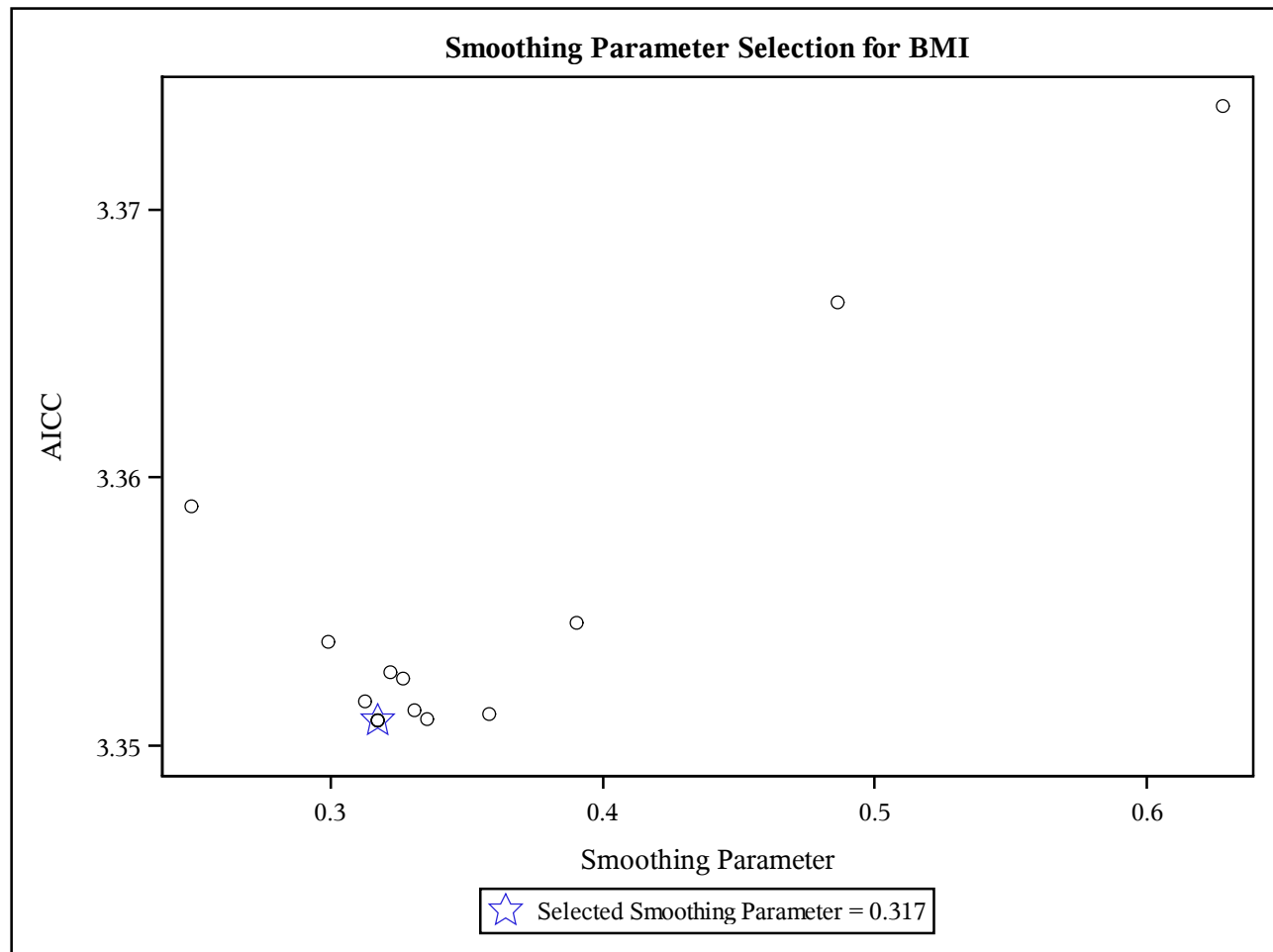
**The LOESS Procedure**

Female Indicator=0

Independent Variable Scaling	
Scaling applied: None	
Statistic	Age (years) at examination
Minimum Value	47
Maximum Value	80

**The LOESS Procedure**  
**Dependent Variable: BMI**

Female Indicator=0



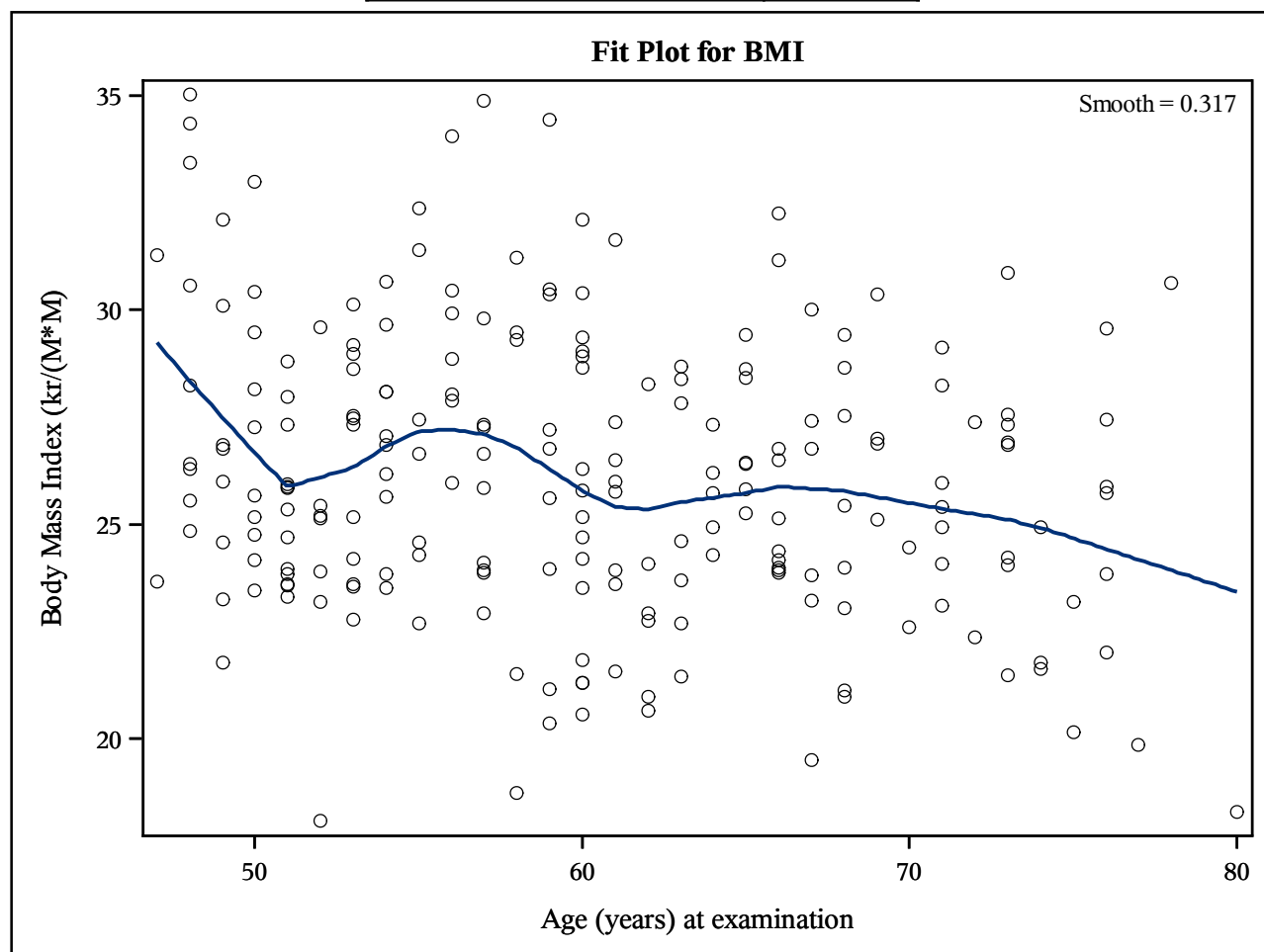
Optimal Smoothing Criterion	
AICC	Smoothing Parameter
3.35097	0.31735



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.317**  
**Dependent Variable: BMI**

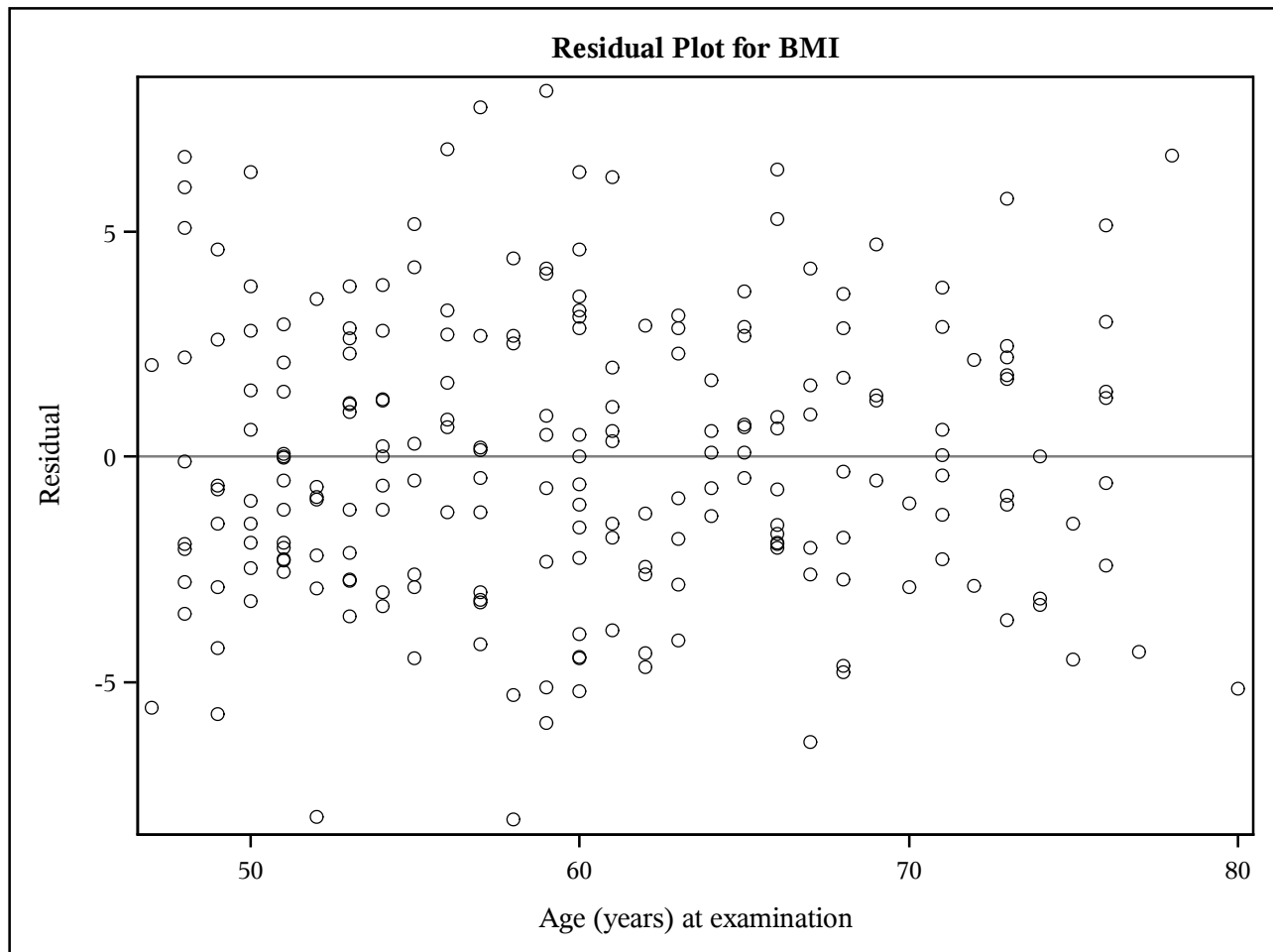
Female Indicator=0

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	219
Number of Fitting Points	23
kd Tree Bucket Size	13
Degree of Local Polynomials	1
Smoothing Parameter	0.31735
Points in Local Neighborhood	69
Residual Sum of Squares	2137.88328
Trace[L]	6.62267
GCV	0.04740
AICC	3.35097



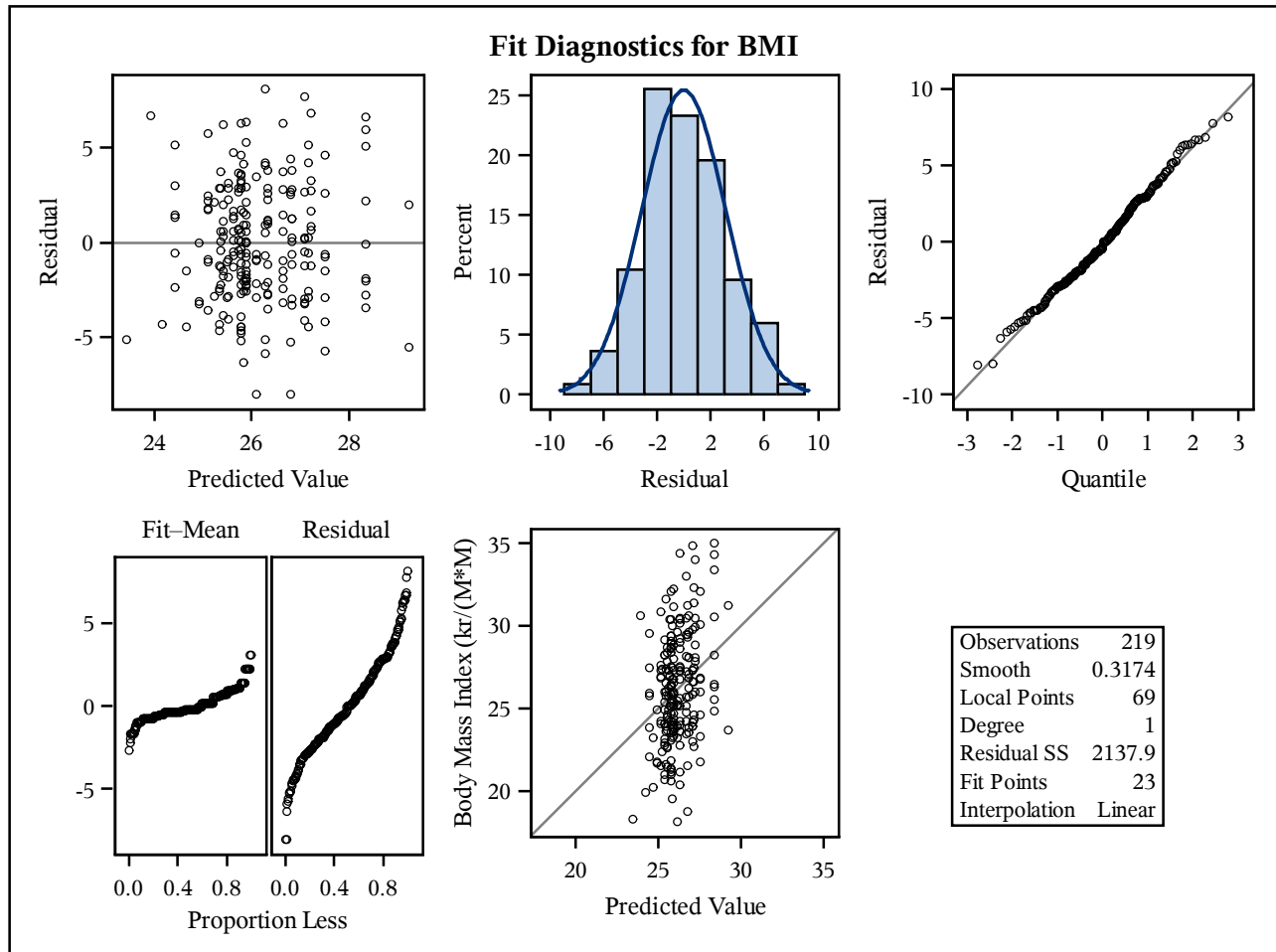
**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.317**  
**Dependent Variable: BMI**

Female Indicator=0



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.317**  
**Dependent Variable: BMI**

Female Indicator=0



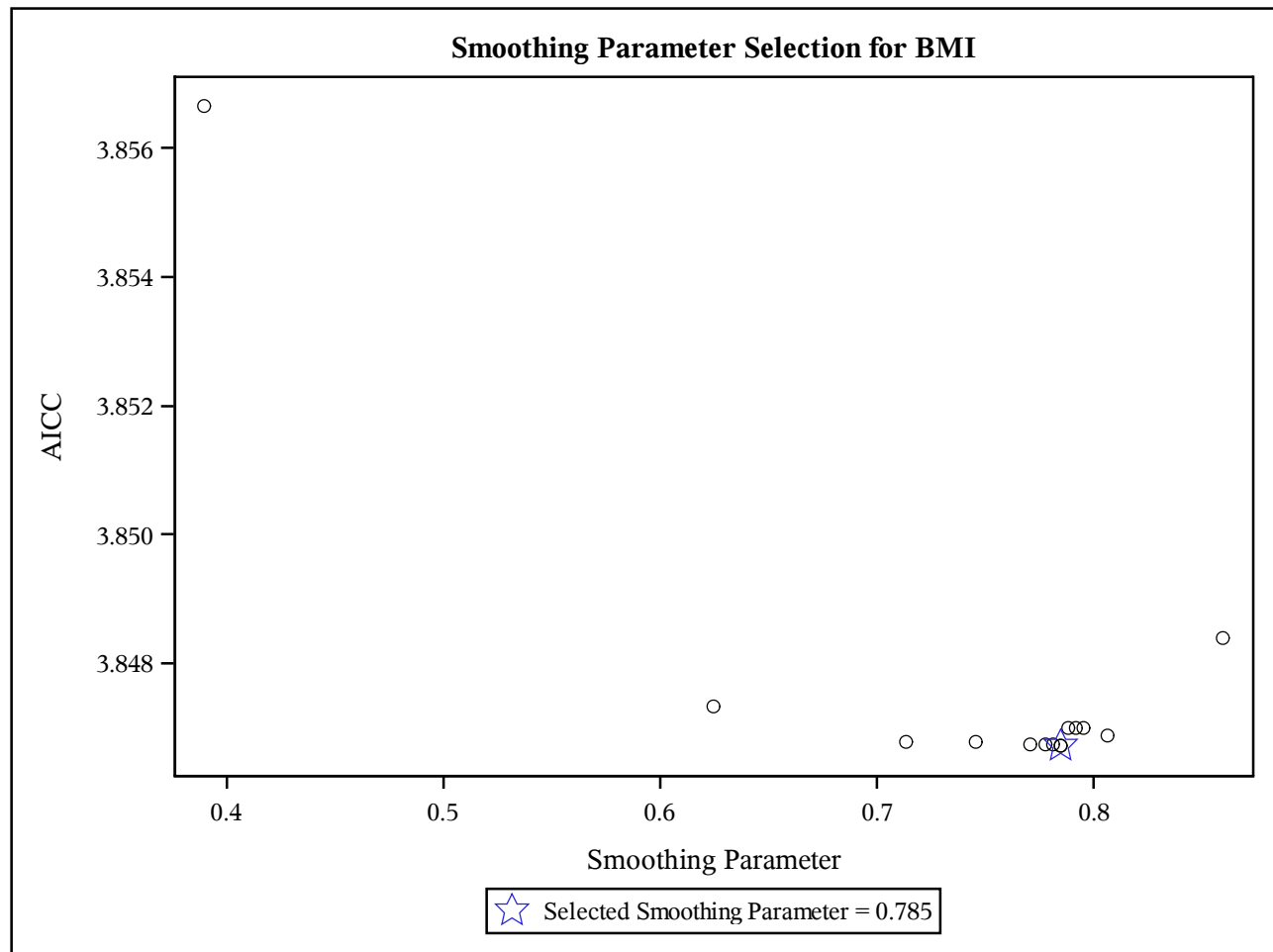
***The LOESS Procedure***

Female Indicator=1

Independent Variable Scaling	
Scaling applied: None	
Statistic	Age (years) at examination
Minimum Value	46
Maximum Value	79

**The LOESS Procedure**  
**Dependent Variable: BMI**

Female Indicator=1

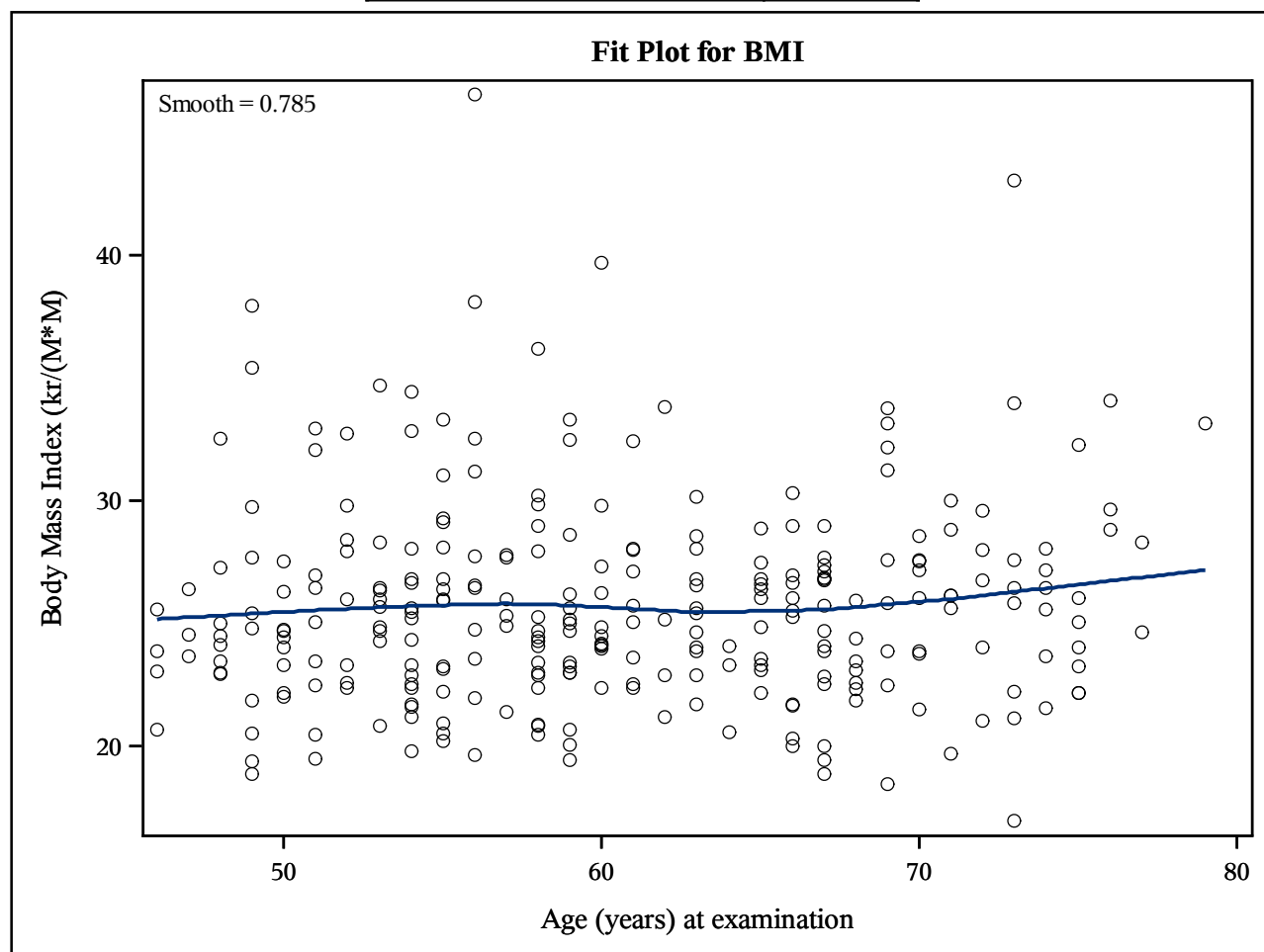


Optimal Smoothing Criterion	
AICC	Smoothing Parameter
3.84671	0.78470

**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.785**  
**Dependent Variable: BMI**

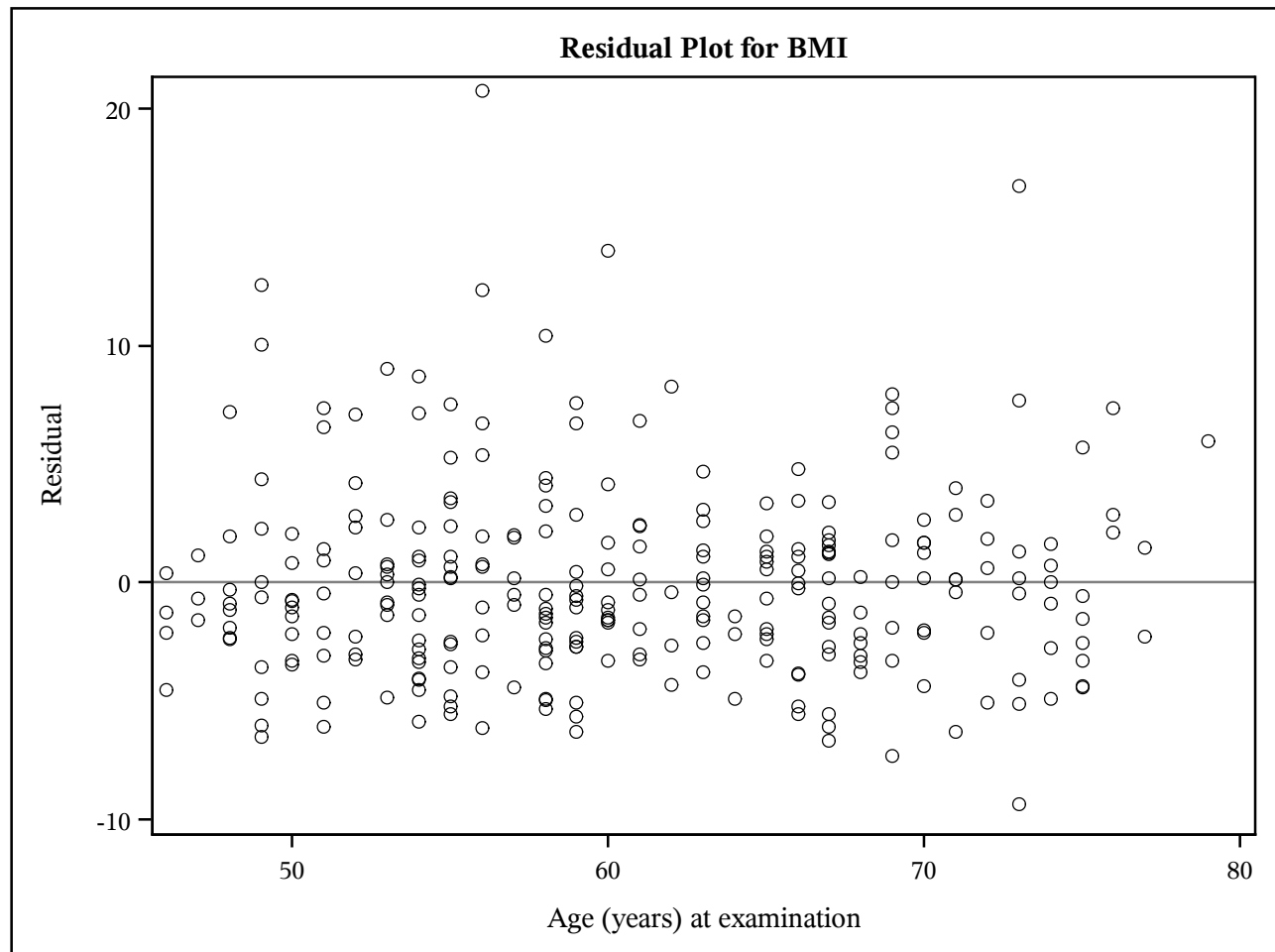
Female Indicator=1

Fit Summary	
Fit Method	kd Tree
Blending	Linear
Number of Observations	281
Number of Fitting Points	9
kd Tree Bucket Size	44
Degree of Local Polynomials	1
Smoothing Parameter	0.78470
Points in Local Neighborhood	220
Residual Sum of Squares	4696.96845
Trace[L]	3.19090
GCV	0.06086
AICC	3.84671



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.785**  
**Dependent Variable: BMI**

Female Indicator=1



**The LOESS Procedure**  
**Selected Smoothing Parameter: 0.785**  
**Dependent Variable: BMI**

Female Indicator=1

