

Linear regression model for response FEV
with explanatory variables AGE, HEIGHT, SEX, and SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fev

Number of Observations Read	654
Number of Observations Used	654

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	380.64028	95.16007	560.02	<.0001
Error	649	110.27955	0.16992		
Corrected Total	653	490.91984			

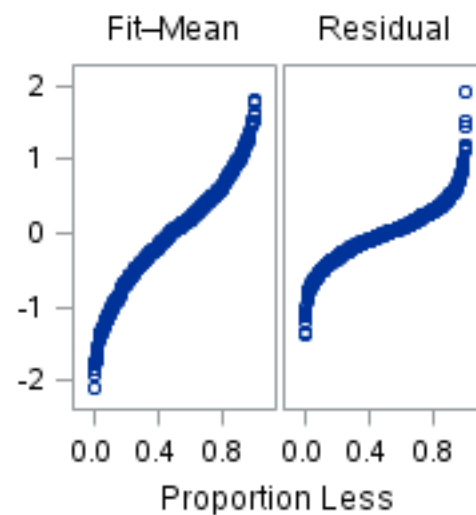
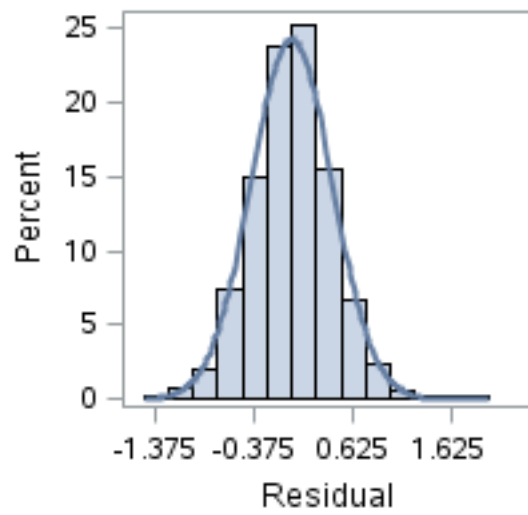
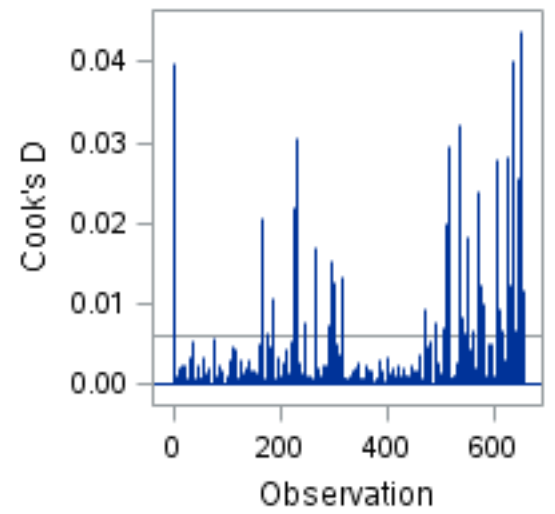
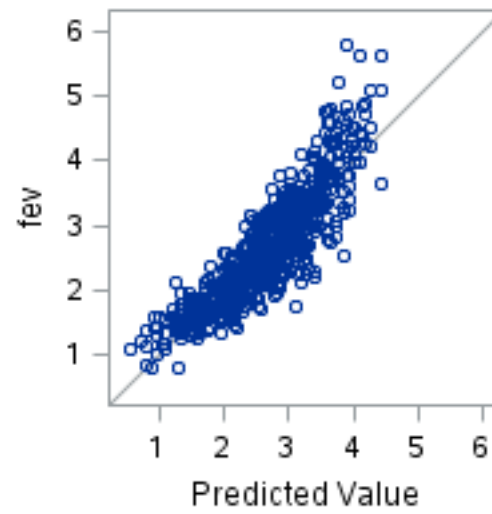
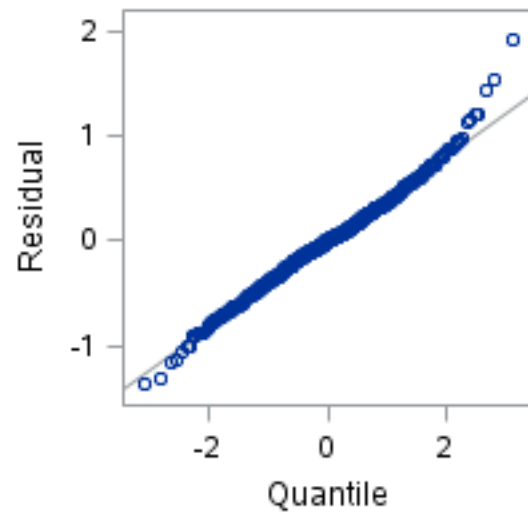
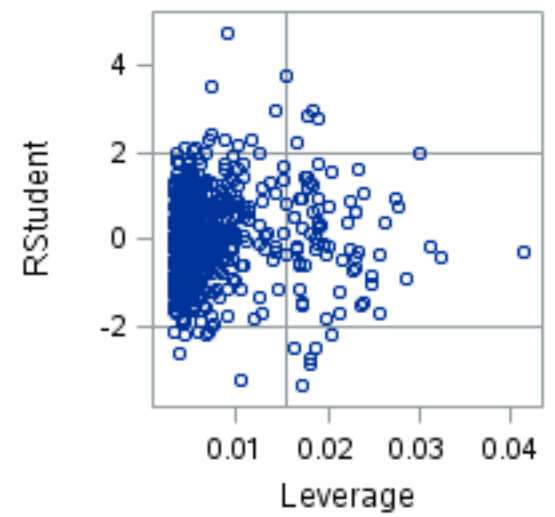
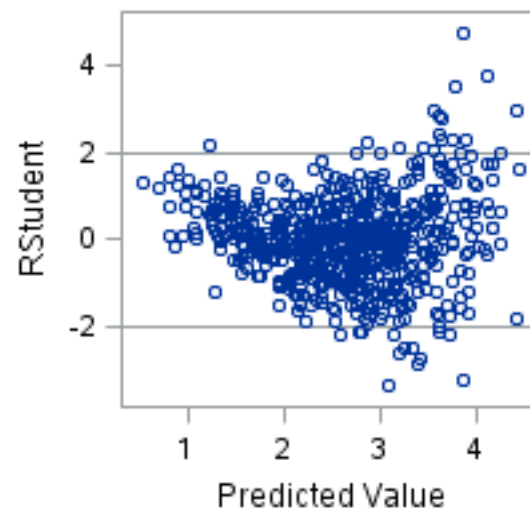
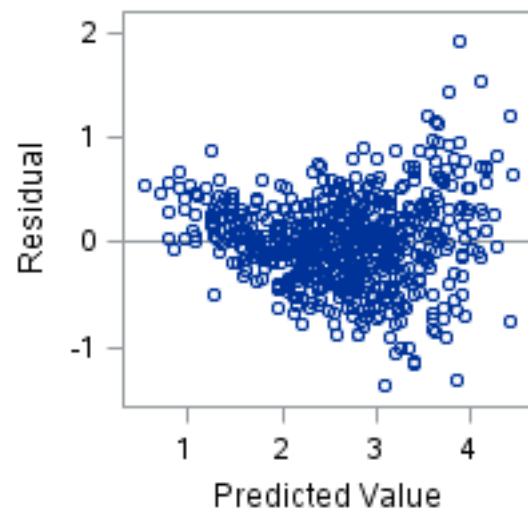
Root MSE	0.41222	R-Square	0.7754
Dependent Mean	2.63678	Adj R-Sq	0.7740
Coeff Var	15.63332		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-4.29987	0.23020	-18.68	<.0001
age	1	0.06551	0.00949	6.90	<.0001
height	1	0.10420	0.00476	21.90	<.0001
sex	1	-0.15710	0.03321	-4.73	<.0001
smoke	1	-0.08725	0.05925	-1.47	0.1414

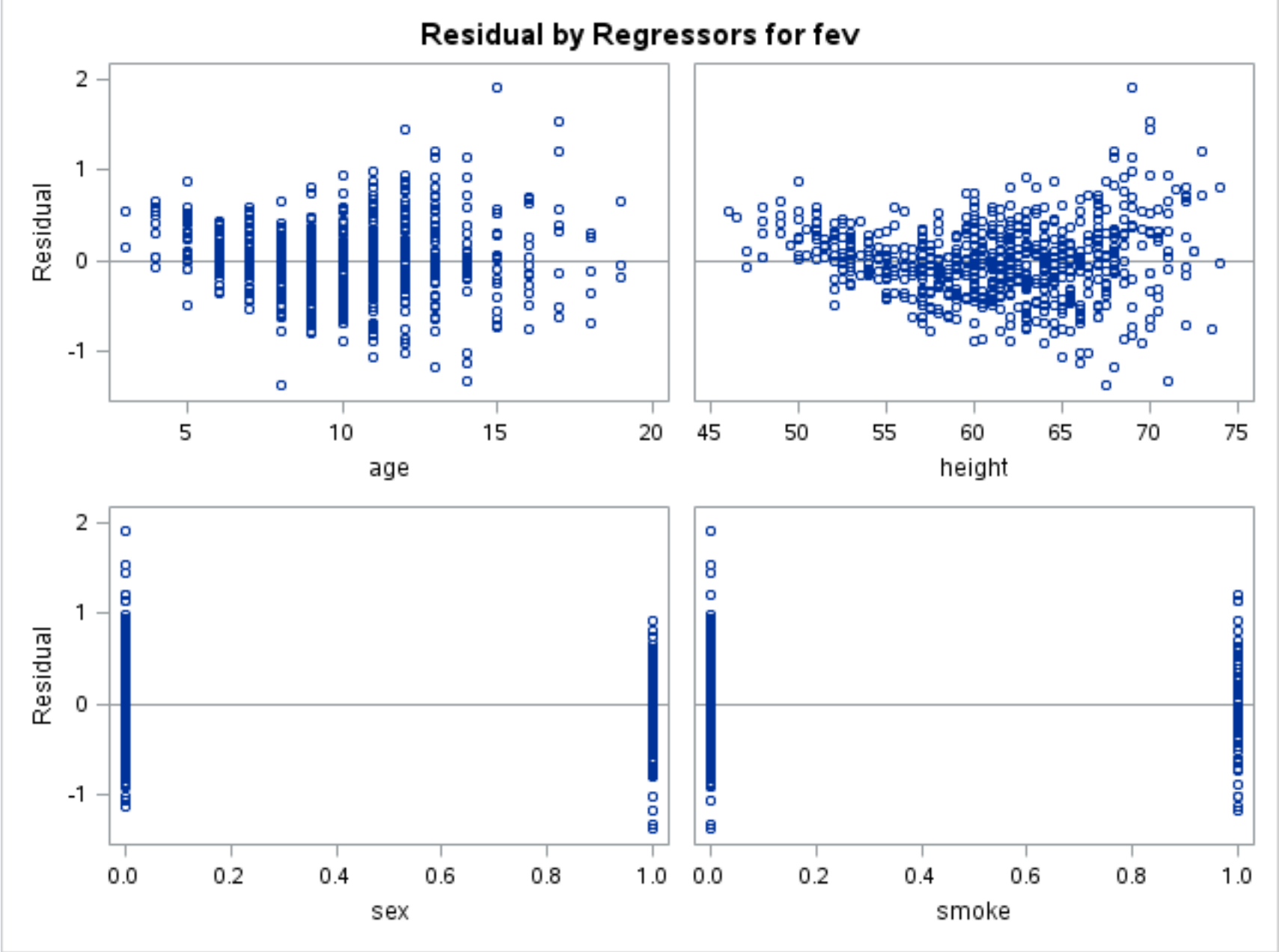
Linear regression model for response FEV
with explanatory variables AGE, HEIGHT, SEX, and SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fev

Fit Diagnostics for fev



Observations	654
Parameters	5
Error DF	649
MSE	0.1699
R-Square	0.7754
Adj R-Square	0.774



Linear regression model for response FEVM
with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevm

smoke=current smoker

Number of Observations Read	26
Number of Observations Used	26

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3.06959	3.06959	4.41	0.0464
Error	24	16.70925	0.69622		
Corrected Total	25	19.77884			

Root MSE	0.83440	R-Square	0.1552
Dependent Mean	3.74323	Adj R-Sq	0.1200
Coeff Var	22.29083		

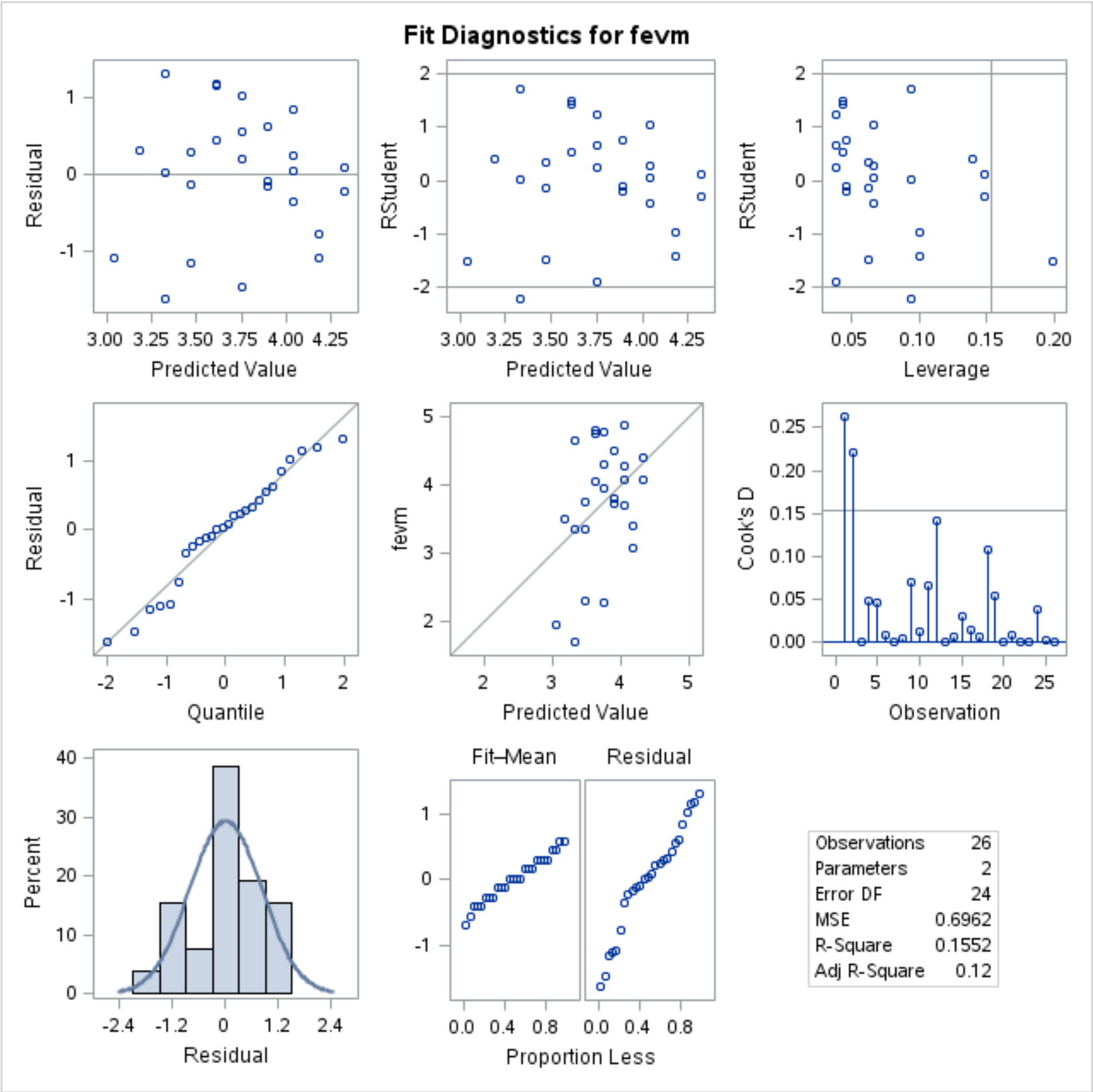
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

Intercept	1	1.76365	0.95687	1.84	0.0777
age	1	0.14218	0.06771	2.10	0.0464

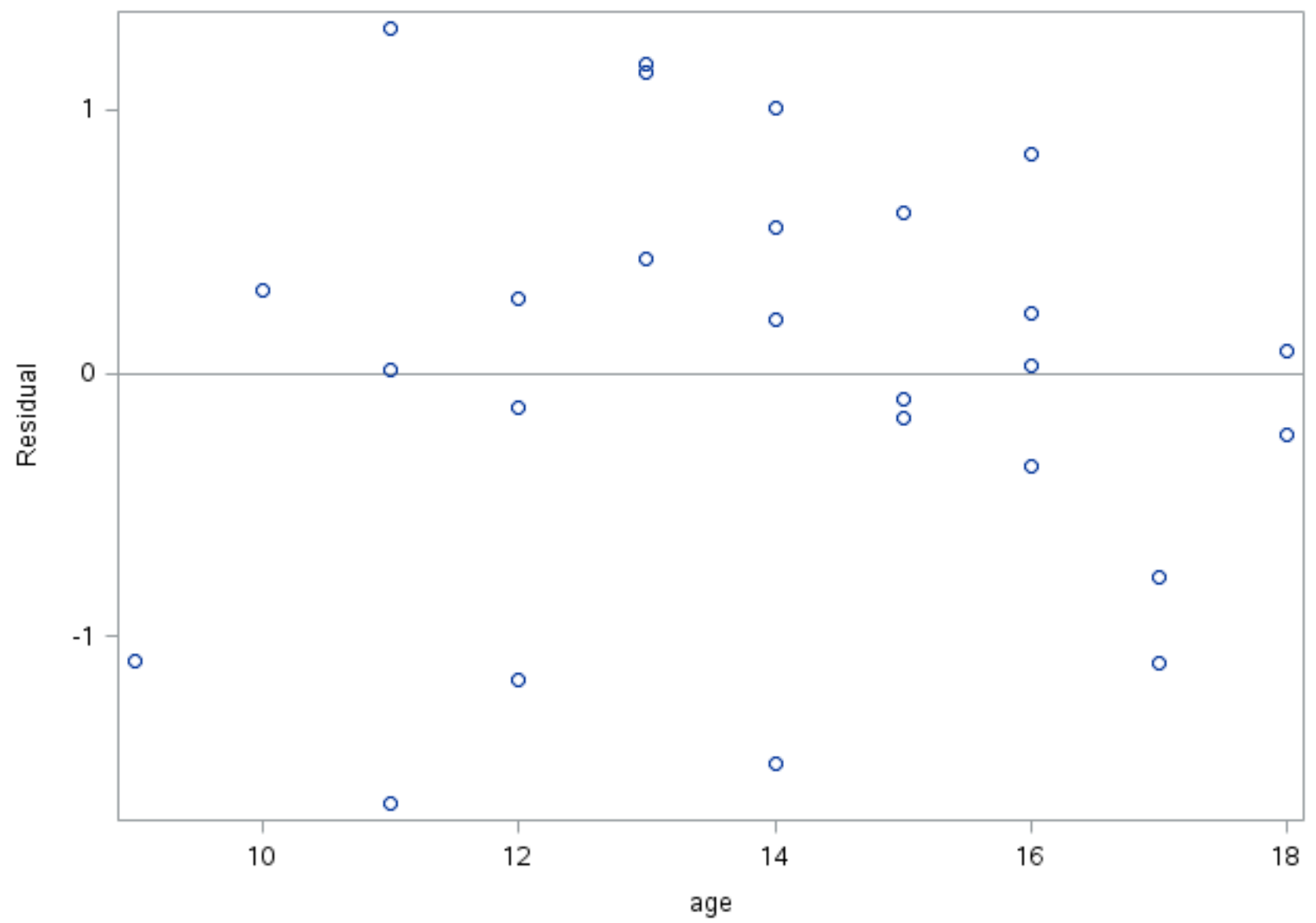
Linear regression model for response FEVM
with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevm

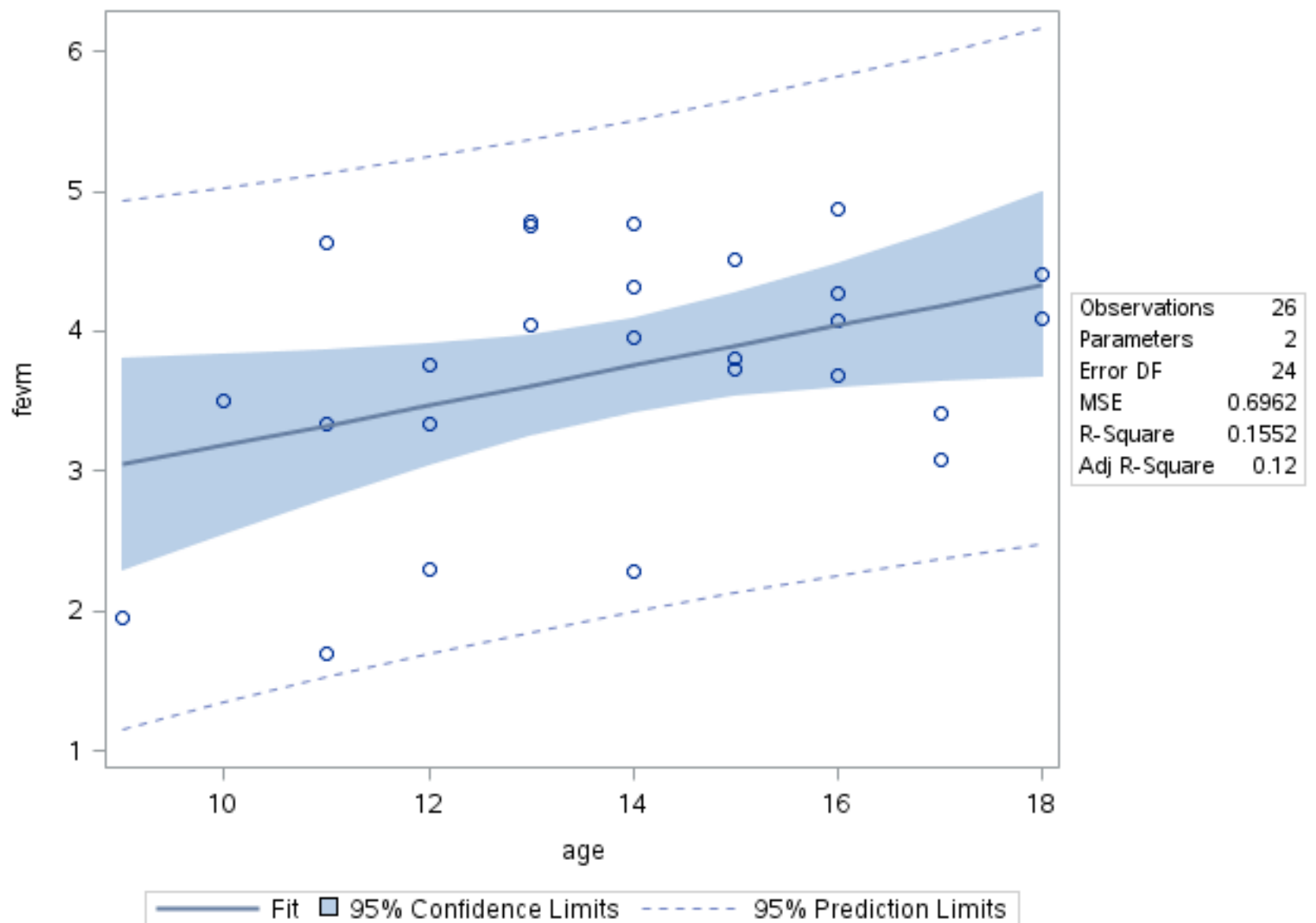
smoke=current smoker



Residuals for fevm



Fit Plot for fevm



Linear regression model for response FEVM with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevm

smoke=non-current smoker

Number of Observations Read	310
Number of Observations Used	310

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	198.08452	198.08452	641.29	<.0001
Error	308	95.13687	0.30889		
Corrected Total	309	293.22140			

Root MSE	0.55578	R-Square	0.6755
Dependent Mean	2.73438	Adj R-Sq	0.6745
Coeff Var	20.32545		

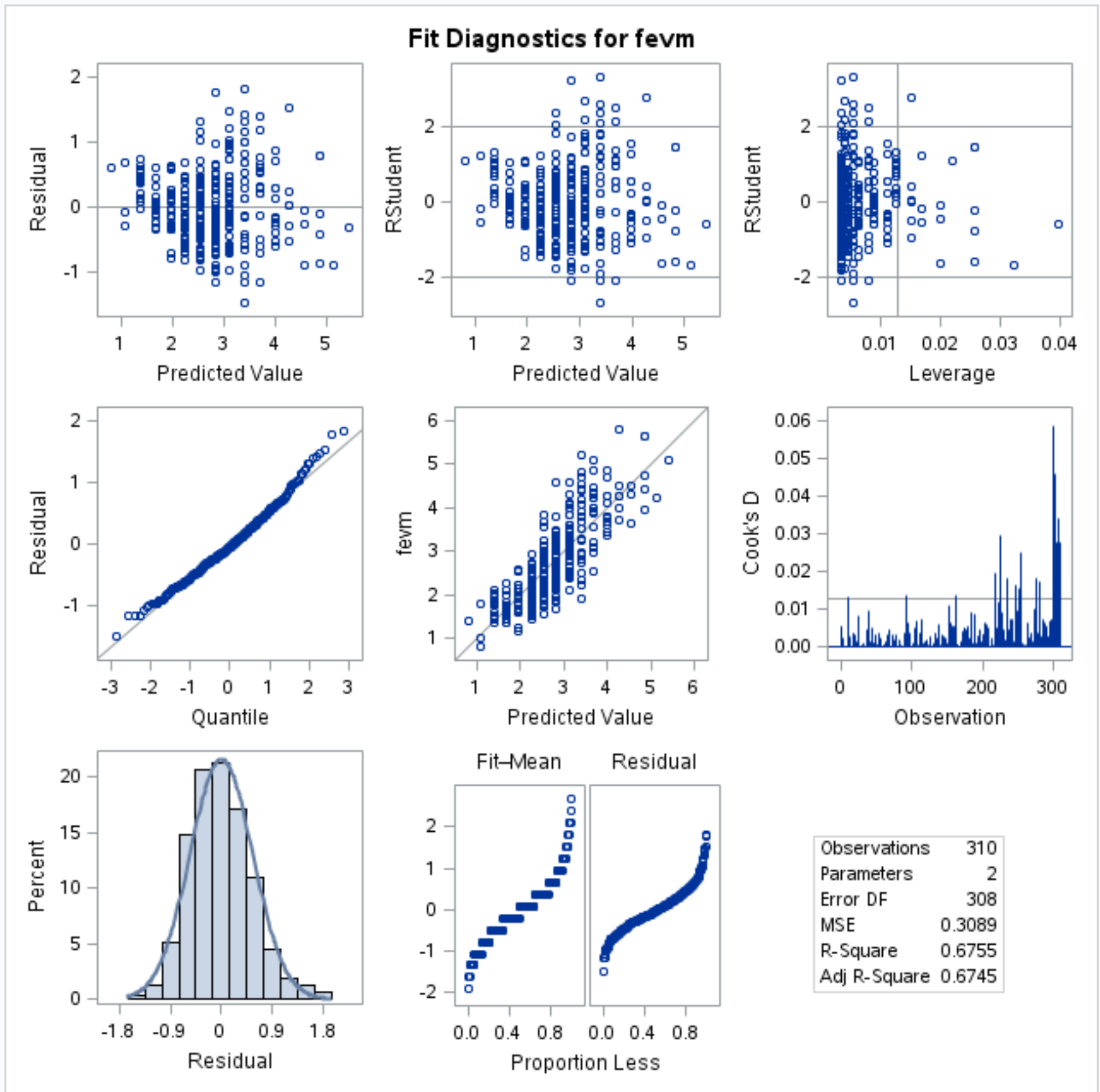
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

Intercept	1	-0.05756	0.11468	-0.50	0.6161
age	1	0.28821	0.01138	25.32	<.0001

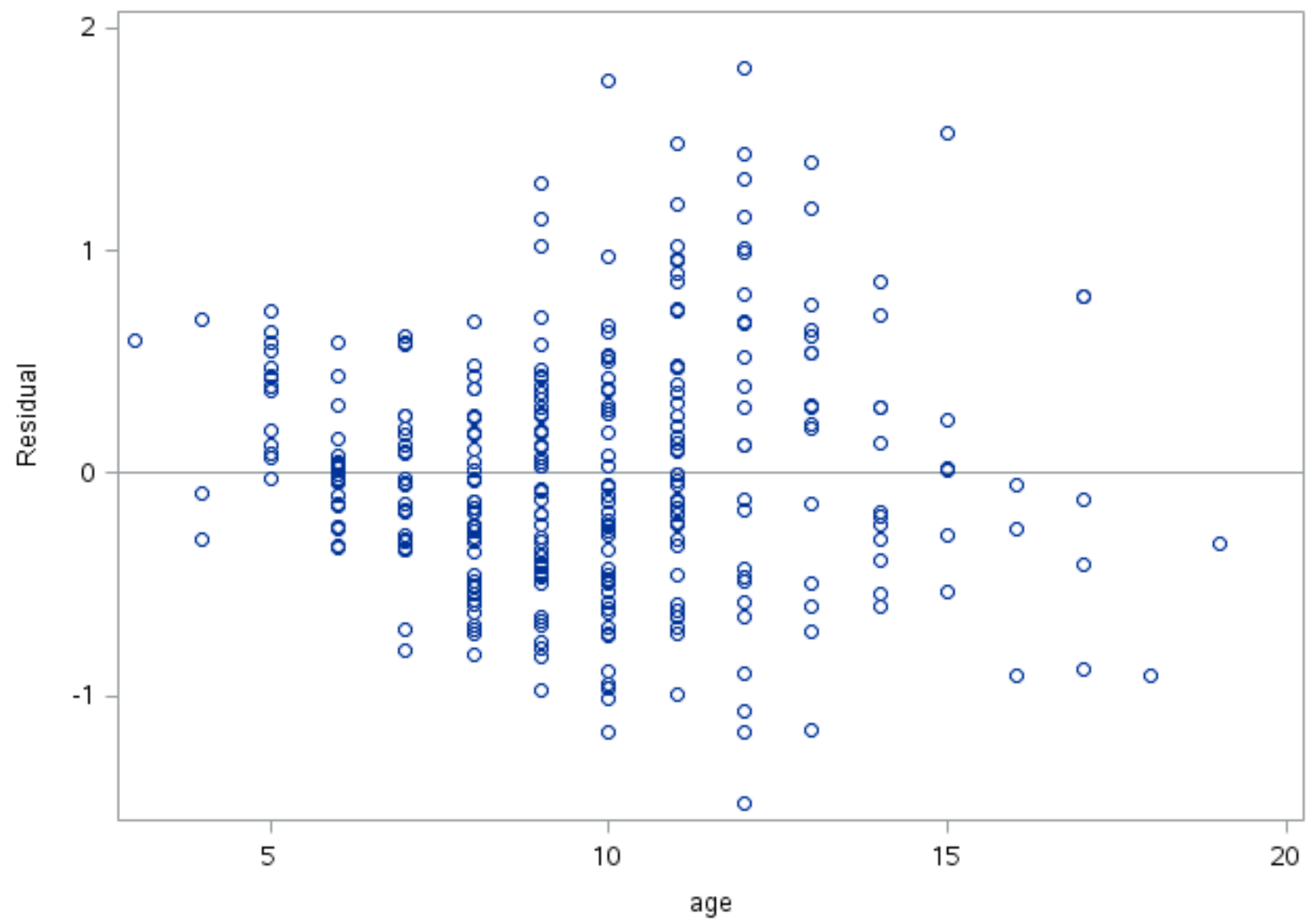
Linear regression model for response FEVM with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevm

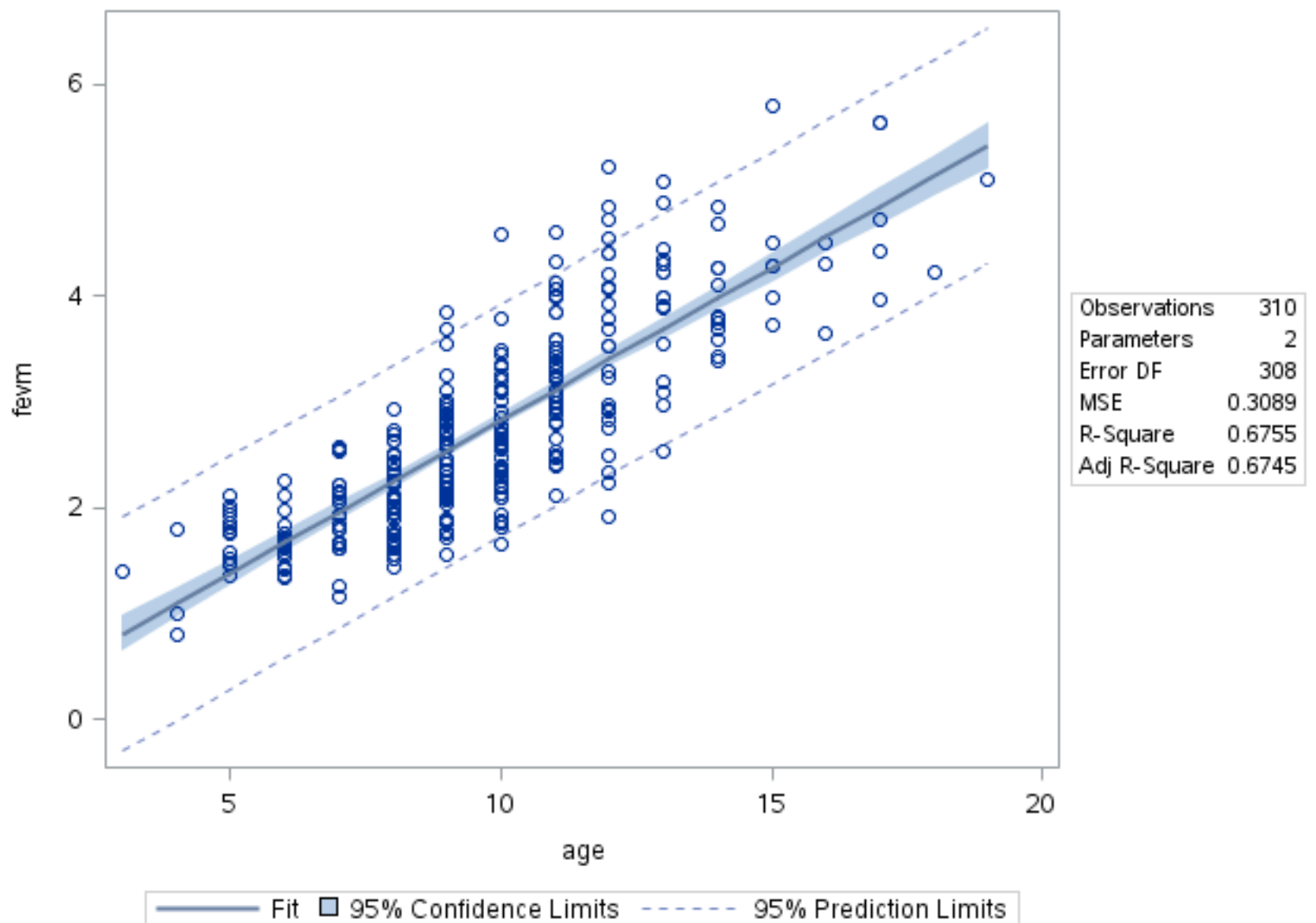
smoke=non-current smoker



Residuals for fevm



Fit Plot for fevm



Linear regression model for response FEVF with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevf

smoke=current smoker

Number of Observations Read	39
Number of Observations Used	39

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.01521	0.01521	0.08	0.7749
Error	37	6.77963	0.18323		
Corrected Total	38	6.79484			

Root MSE	0.42806	R-Square	0.0022
Dependent Mean	2.96595	Adj R-Sq	-0.0247
Coeff Var	14.43239		

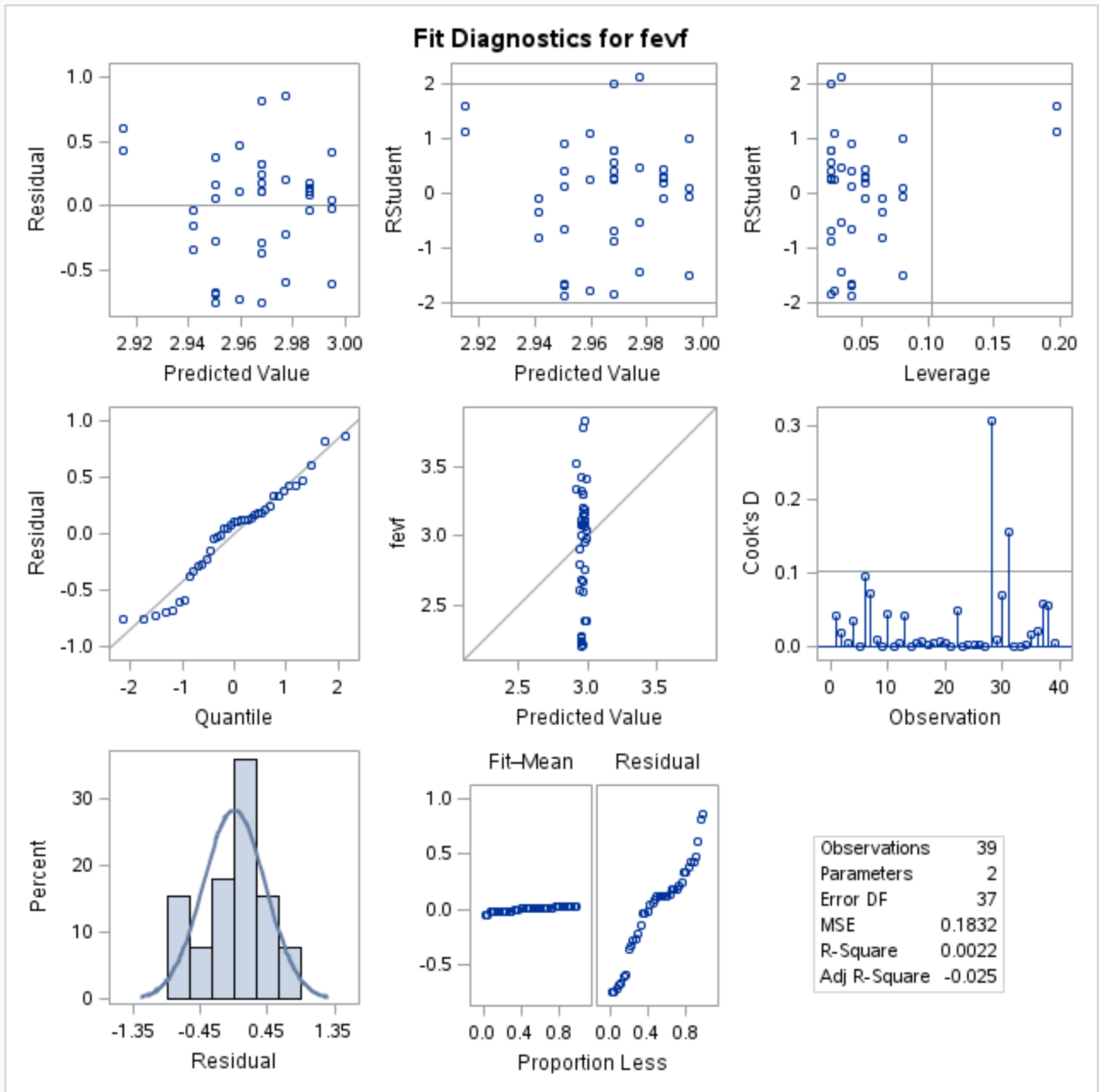
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

Intercept	1	3.08412	0.41581	7.42	<.0001
age	1	-0.00891	0.03094	-0.29	0.7749

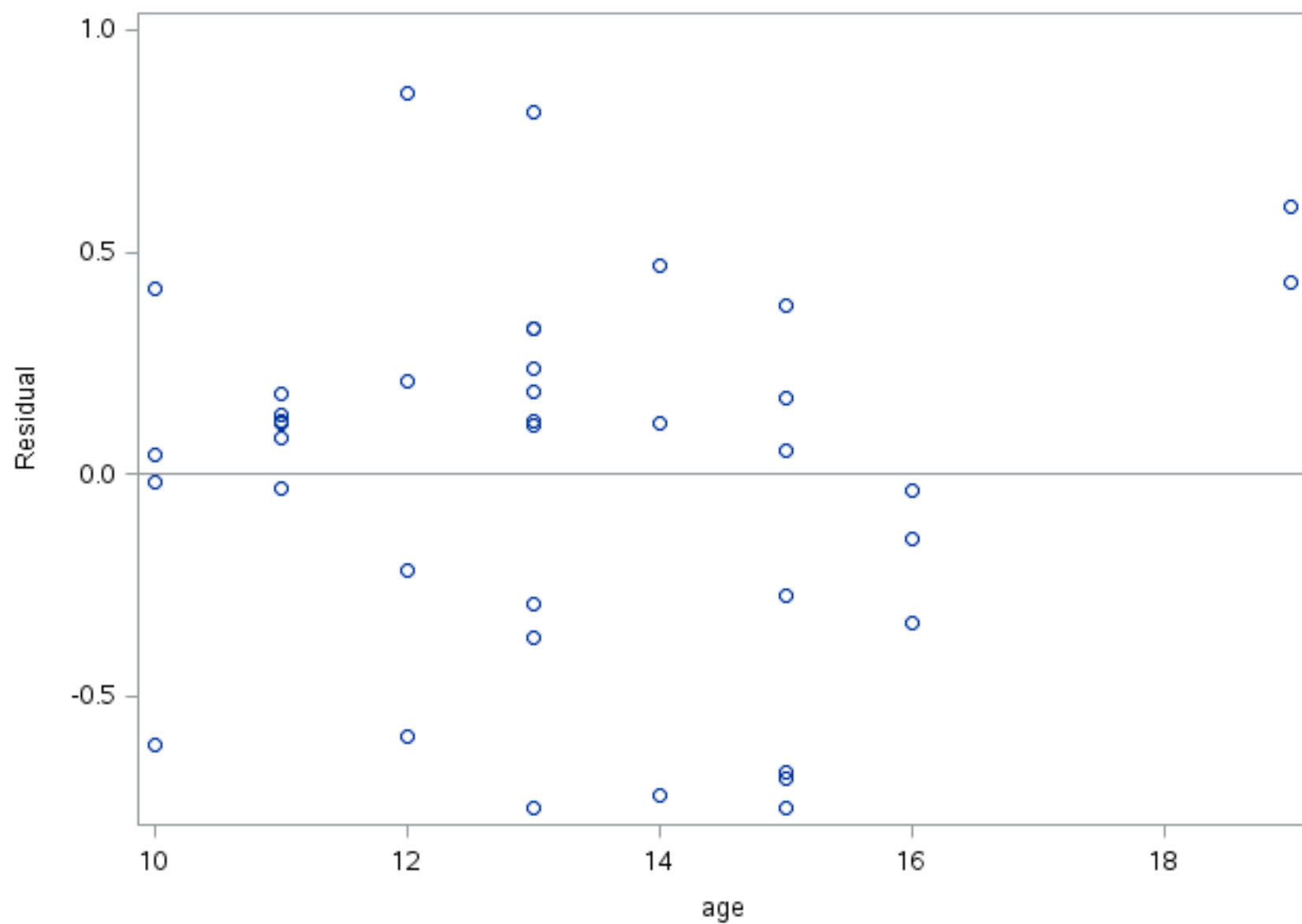
Linear regression model for response FEVf with explanatory variable SMOKE

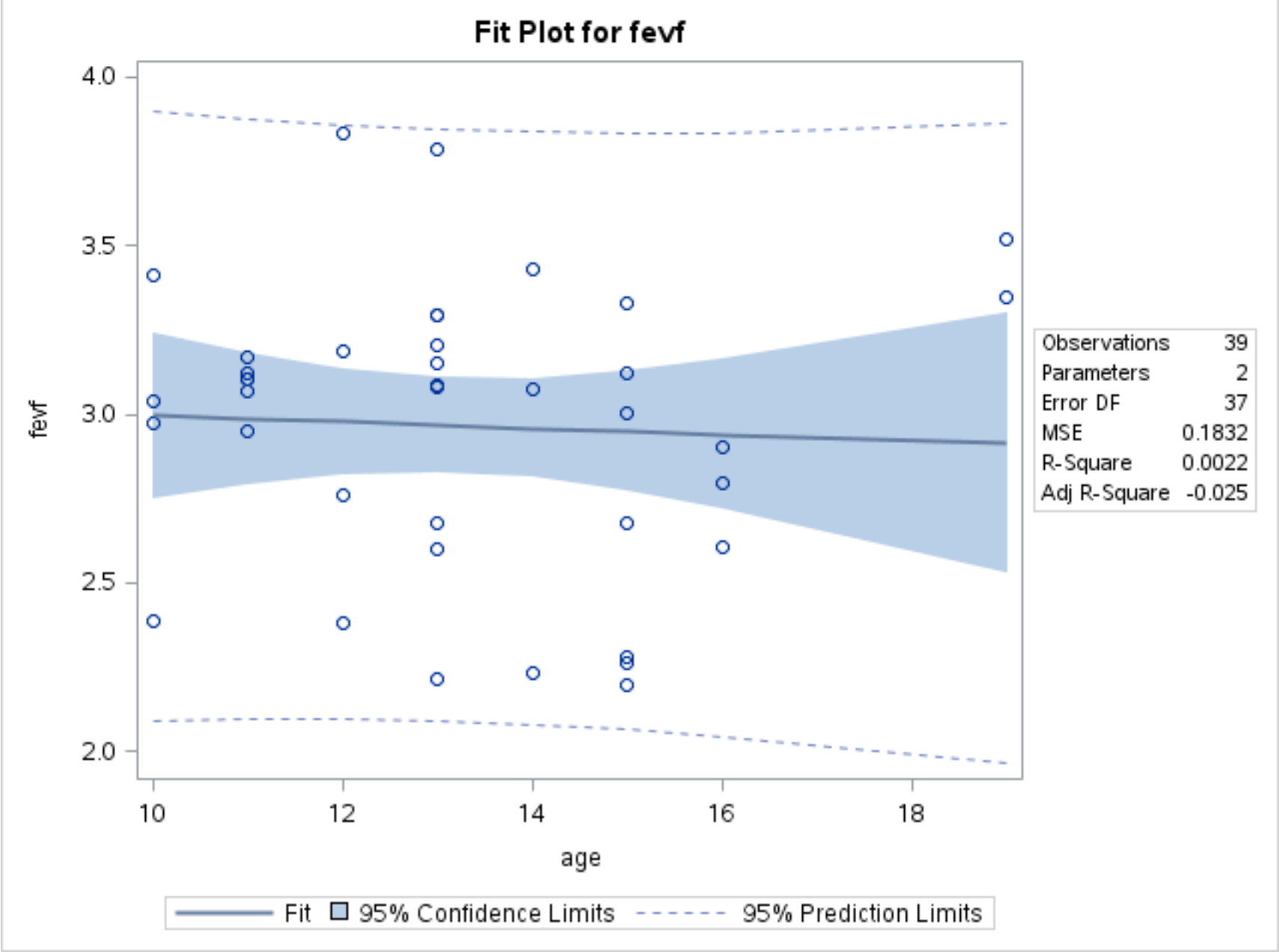
The REG Procedure
Model: MODEL1
Dependent Variable: fevf

smoke=current smoker



Residuals for fevf





**Linear regression model for response FEVF
with explanatory variable SMOKE**

The REG Procedure
Model: MODEL1
Dependent Variable: fevf

smoke=non-current smoker

Number of Observations Read	279
Number of Observations Used	279

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	66.86458	66.86458	396.25	<.0001
Error	277	46.74208	0.16874		
Corrected Total	278	113.60665			

Root MSE	0.41078	R-Square	0.5886
Dependent Mean	2.37921	Adj R-Sq	0.5871
Coeff Var	17.26558		

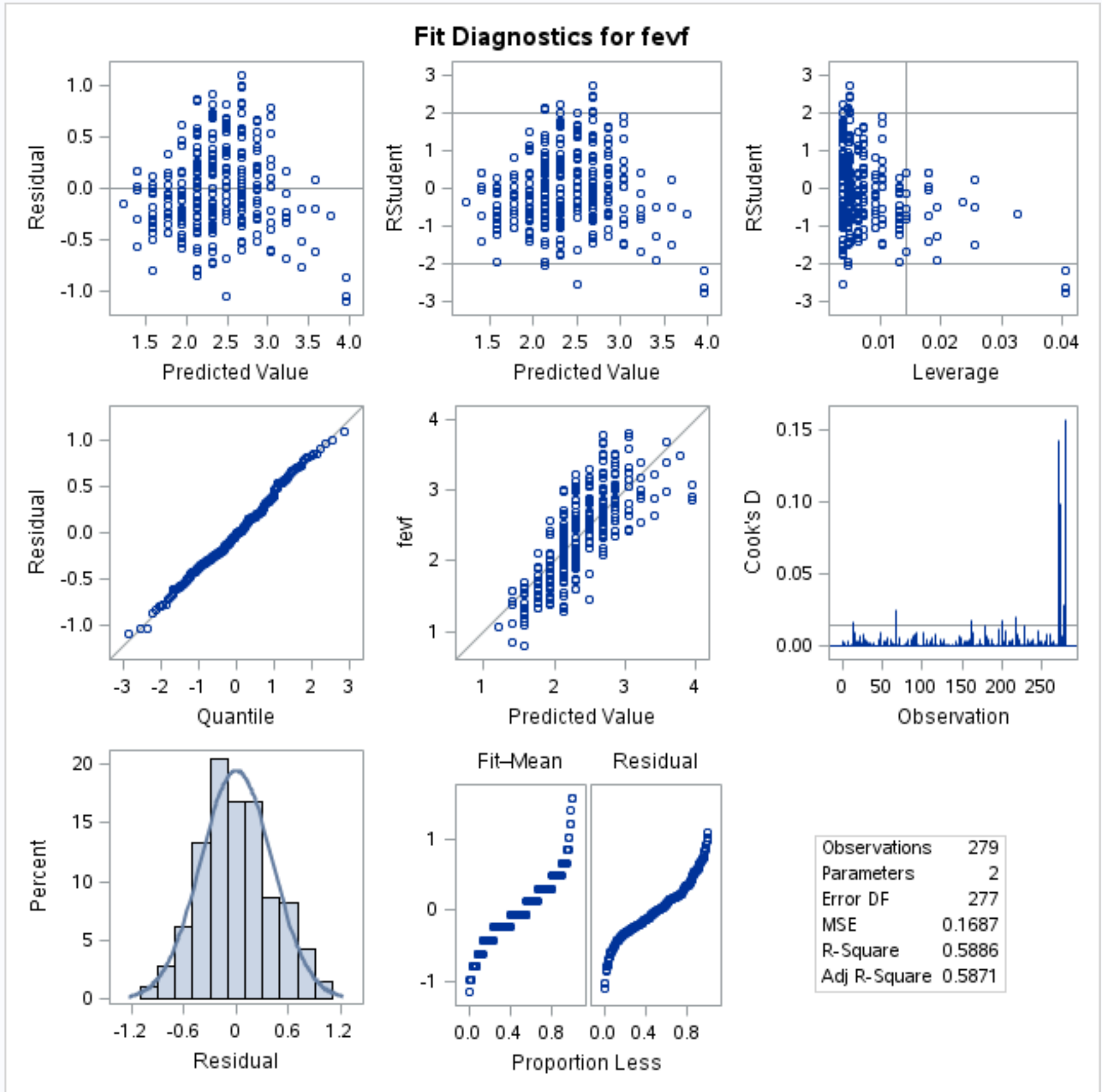
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

Intercept	1	0.67387	0.08913	7.56	<.0001
age	1	0.18209	0.00915	19.91	<.0001

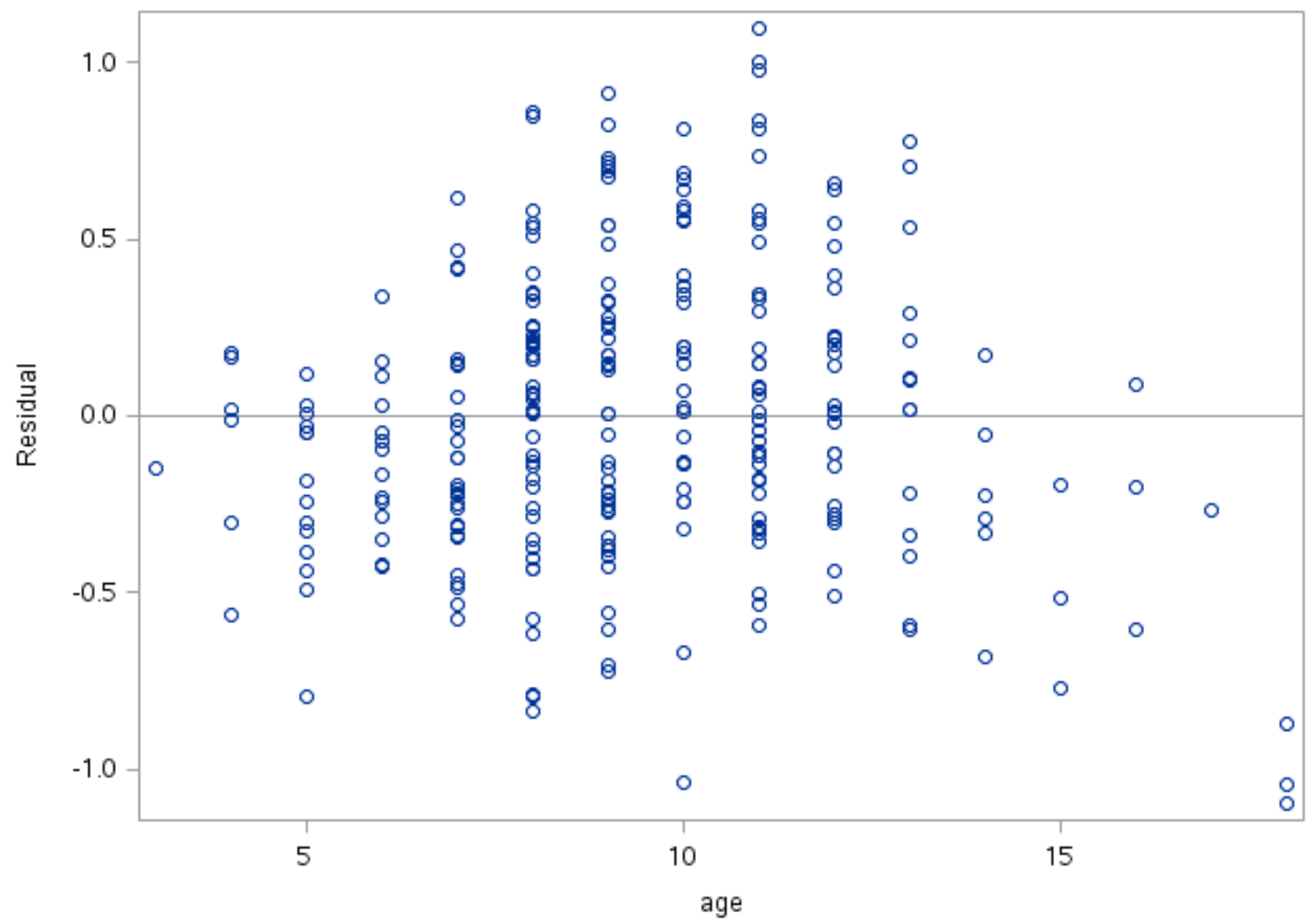
Linear regression model for response FEVf with explanatory variable SMOKE

The REG Procedure
Model: MODEL1
Dependent Variable: fevf

smoke=non-current smoker



Residuals for fevf



Fit Plot for fevf

