The UNIVARIATE Procedure
Variable: FVC_father

Moments			
N	150	**Sum Weights**	150
Mean	495.233333	**Sum Observations**	74285
Std Deviation	79.3669937	**Variance**	6299.11969
Skewness	0.05547745	**Kurtosis**	-0.5196152
Uncorrected SS	37726977	**Corrected SS**	938568.833
Coeff Variation	16.0261817	**Std Error Mean**	6.4802879

Basic Statistical Measures			
Location		**Variability**	
Mean	495.2333	**Std Deviation**	79.36699
Median	495.5000	**Variance**	6299
Mode	391.0000	**Range**	364.00000
		Interquartile Range	109.00000

Note: The mode displayed is the smallest of 7 modes with a count of 3.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	76.4215	**Pr > |t|**	<.0001
Sign	**M**	75	**Pr >= |M|**	<.0001
Signed Rank	**S**	5662.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.990154	**Pr < W**	0.3789
Kolmogorov-Smirnov	**D**	0.050979	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.044678	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.321616	**Pr > A-Sq**	>0.2500

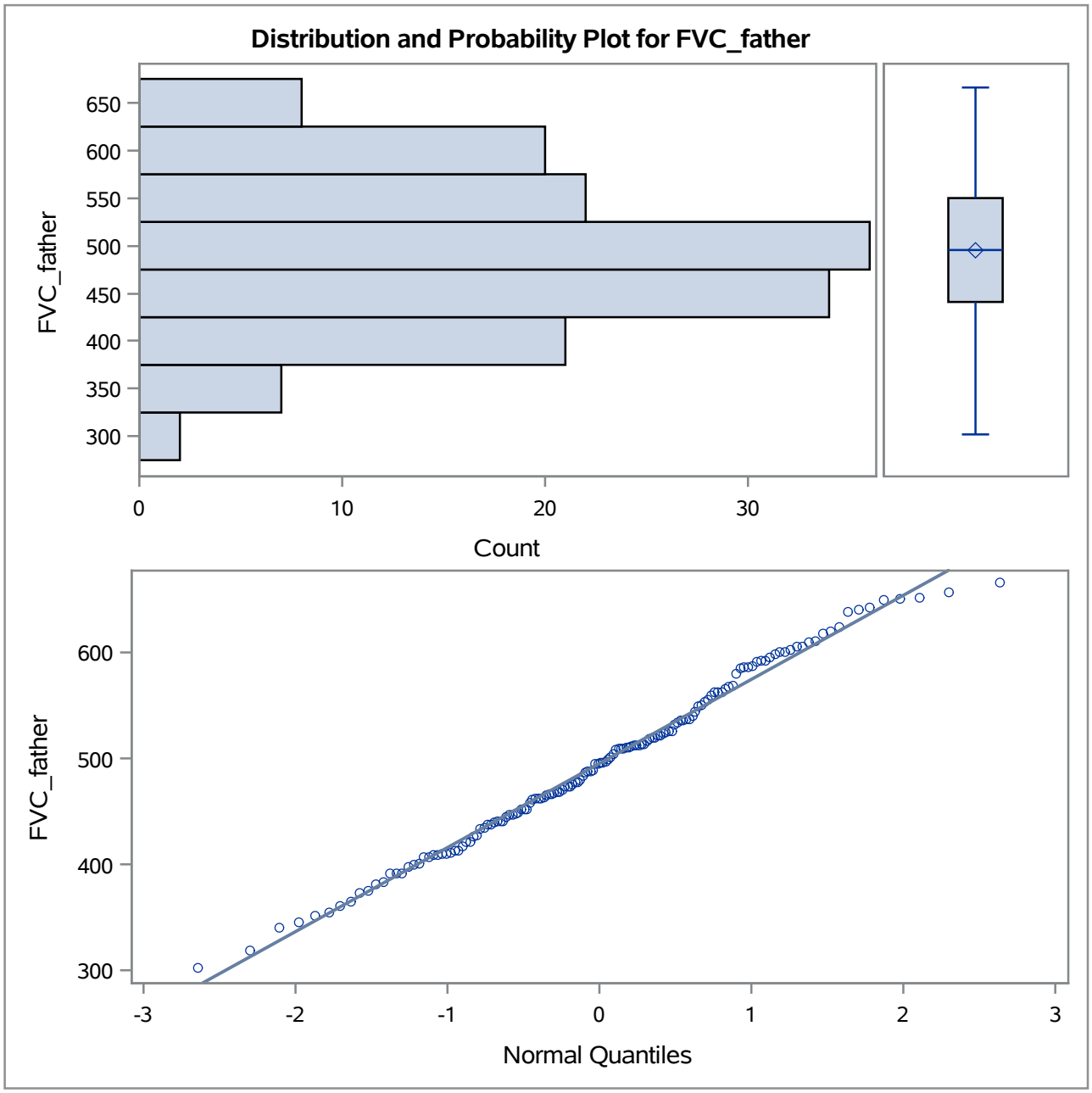
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	666.0
99%	657.0
95%	638.0
90%	604.0
75% Q3	550.0
50% Median	495.5

The UNIVARIATE Procedure
Variable: FVC_father

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	441.0
10%	394.5
5%	365.0
1%	319.0
0% Min	302.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
302	40	650	110
319	80	651	21
340	75	652	102
345	7	657	74
351	150	666	50

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: Age_father

Moments			
N	150	**Sum Weights**	150
Mean	40.1333333	**Sum Observations**	6020
Std Deviation	6.88999534	**Variance**	47.4720358
Skewness	0.29431599	**Kurtosis**	-0.4385605
Uncorrected SS	248676	**Corrected SS**	7073.33333
Coeff Variation	17.1677625	**Std Error Mean**	0.56256576

Basic Statistical Measures			
Location		**Variability**	
Mean	40.13333	**Std Deviation**	6.89000
Median	40.00000	**Variance**	47.47204
Mode	40.00000	**Range**	33.00000
		Interquartile Range	10.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	71.33981	**Pr > |t|**	<.0001
Sign	**M**	75	**Pr >= |M|**	<.0001
Signed Rank	**S**	5662.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.982733	**Pr < W**	0.0569
Kolmogorov-Smirnov	**D**	0.06772	**Pr > D**	0.0905
Cramer-von Mises	**W-Sq**	0.094665	**Pr > W-Sq**	0.1347
Anderson-Darling	**A-Sq**	0.692127	**Pr > A-Sq**	0.0733

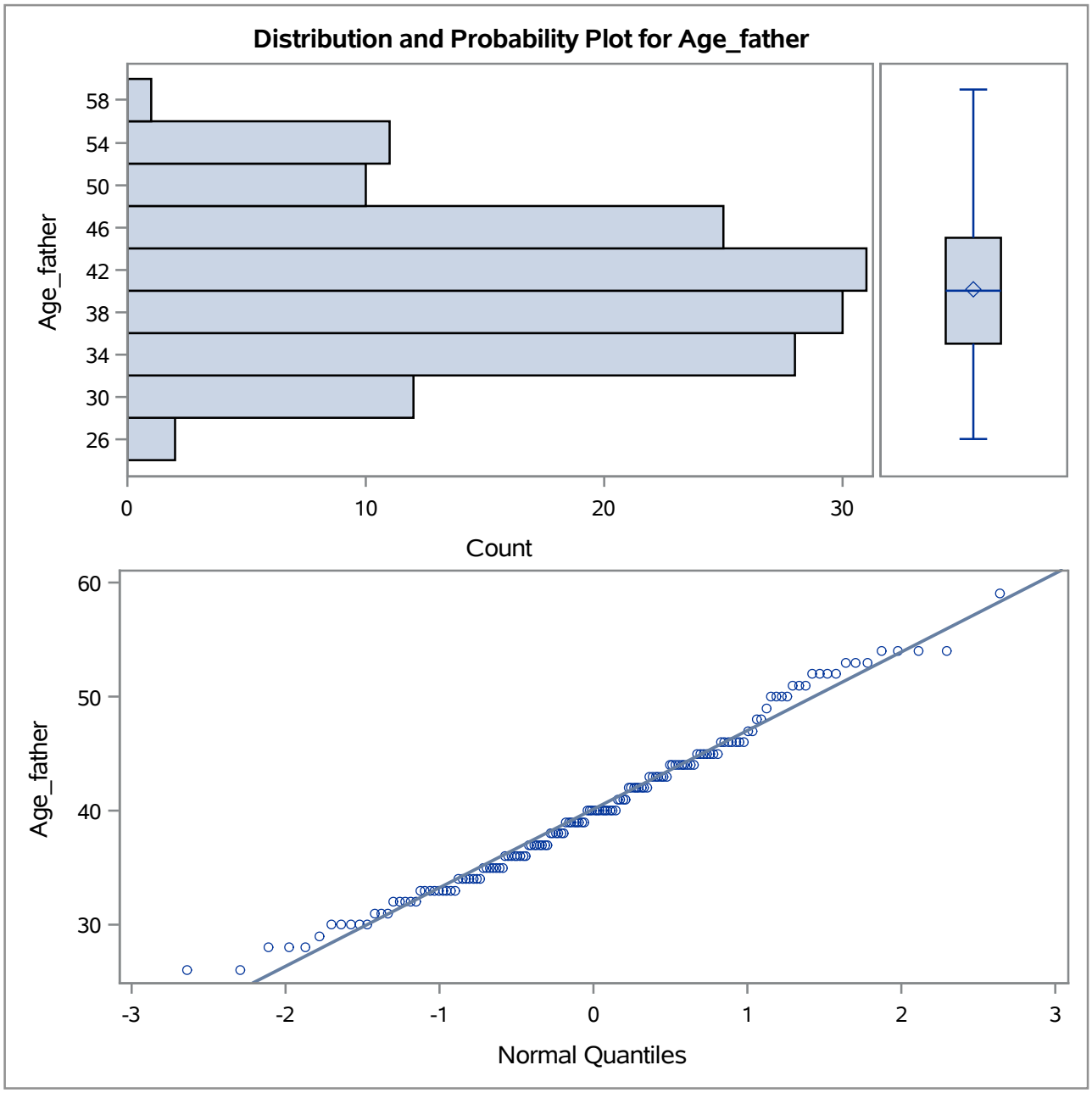
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	59.0
99%	54.0
95%	53.0
90%	50.5
75% Q3	45.0
50% Median	40.0
25% Q1	35.0

The UNIVARIATE Procedure
Variable: Age_father

Quantiles (Definition 5)	
Level	**Quantile**
10%	32.0
5%	30.0
1%	26.0
0% Min	26.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
26	37	54	18
26	3	54	44
28	141	54	69
28	79	54	75
28	77	59	56

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: Height_father

Moments			
N	150	**Sum Weights**	150
Mean	69.26	**Sum Observations**	10389
Std Deviation	2.7791892	**Variance**	7.72389262
Skewness	-0.1873709	**Kurtosis**	0.14871474
Uncorrected SS	720693	**Corrected SS**	1150.86
Coeff Variation	4.01269016	**Std Error Mean**	0.22691985

Basic Statistical Measures			
Location		**Variability**	
Mean	69.26000	**Std Deviation**	2.77919
Median	69.00000	**Variance**	7.72389
Mode	69.00000	**Range**	15.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	305.2179	**Pr > |t|**	<.0001
Sign	**M**	75	**Pr >= |M|**	<.0001
Signed Rank	**S**	5662.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.983003	**Pr < W**	0.0611
Kolmogorov-Smirnov	**D**	0.077268	**Pr > D**	0.0267
Cramer-von Mises	**W-Sq**	0.160096	**Pr > W-Sq**	0.0187
Anderson-Darling	**A-Sq**	0.906506	**Pr > A-Sq**	0.0215

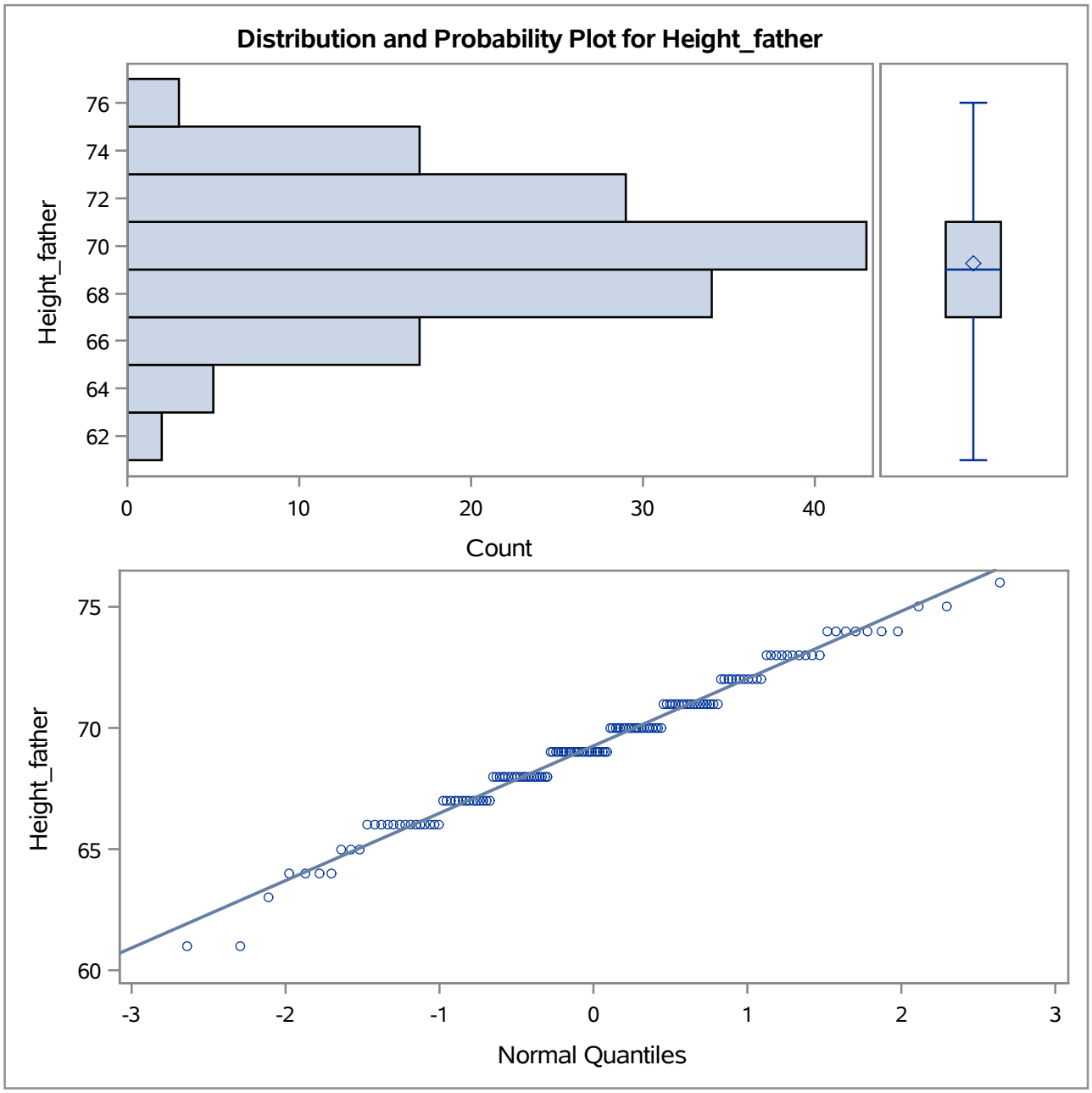
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	76
99%	75
95%	74
90%	73
75% Q3	71
50% Median	69
25% Q1	67

The UNIVARIATE Procedure
Variable: Height_father

Quantiles (Definition 5)	
Level	**Quantile**
10%	66
5%	65
1%	61
0% Min	61

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
61	5	74	101
61	1	74	140
63	97	75	50
64	150	75	130
64	132	76	105

The UNIVARIATE Procedure



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FVC_father

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	338165	169083	41.40	<.0001
Error	147	600404	4084.37907		
Corrected Total	149	938569			

Root MSE	63.90915	**R-Square**	0.3603
Dependent Mean	495.23333	**Adj R-Sq**	0.3516
Coeff Var	12.90486		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate	Variance Inflation
Intercept	1	-453.92042	135.96546	-3.34	0.0011	0	0
Age_father	1	-2.77879	0.76109	-3.65	0.0004	-0.24123	1.00316
Height_father	1	15.31441	1.88685	8.12	<.0001	0.53626	1.00316

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

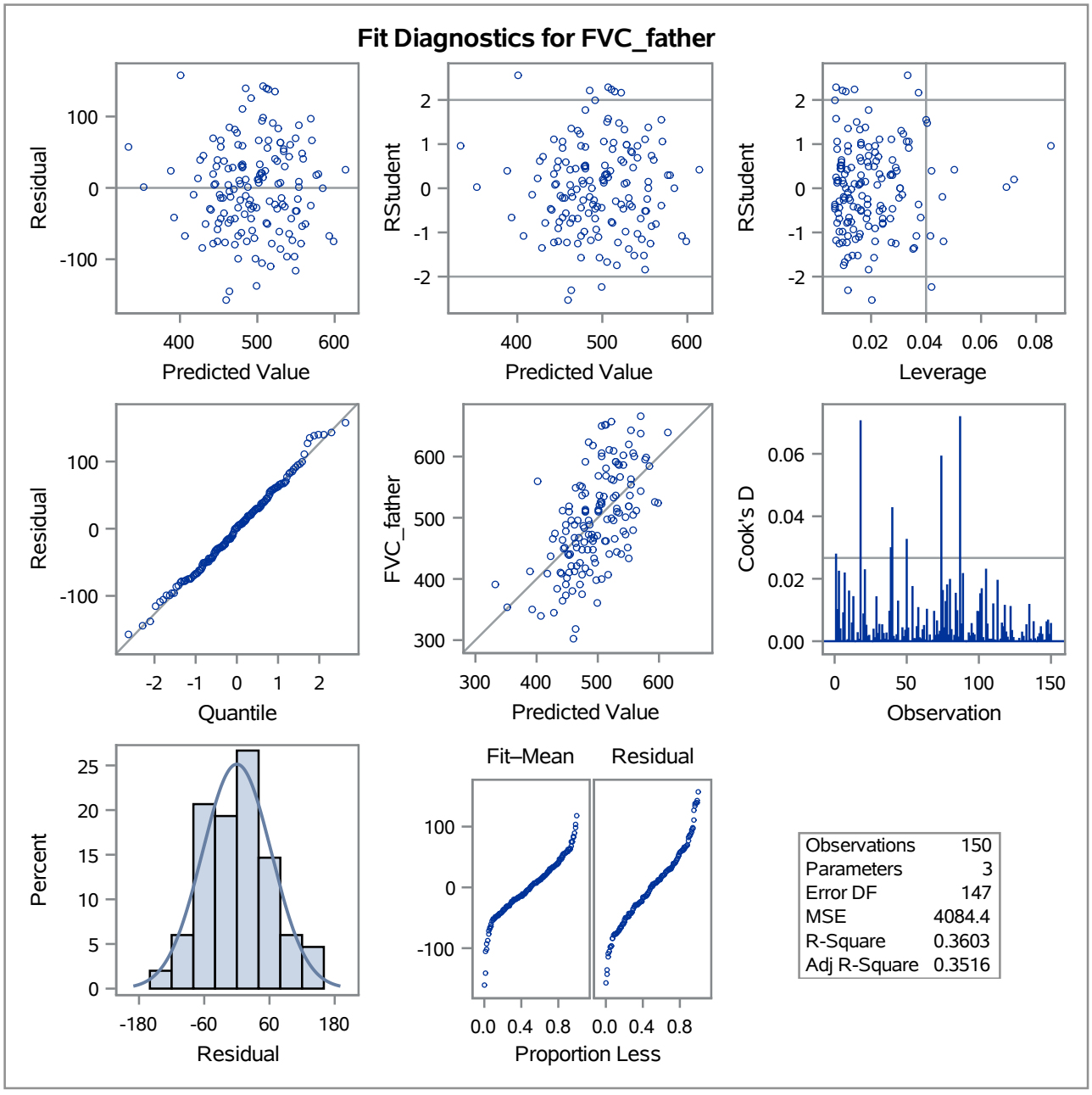
The REG Procedure
Model: MODEL1
Dependent Variable: FVC_father

Durbin-Watson D	2.056
Pr < DW	0.6373
Pr > DW	0.3627
Number of Observations	150
1st Order Autocorrelation	-0.032

Note: Pr<DW is the p-value for testing positive autocorrelation, and Pr>DW is the p-value for testing negative autocorrelation.

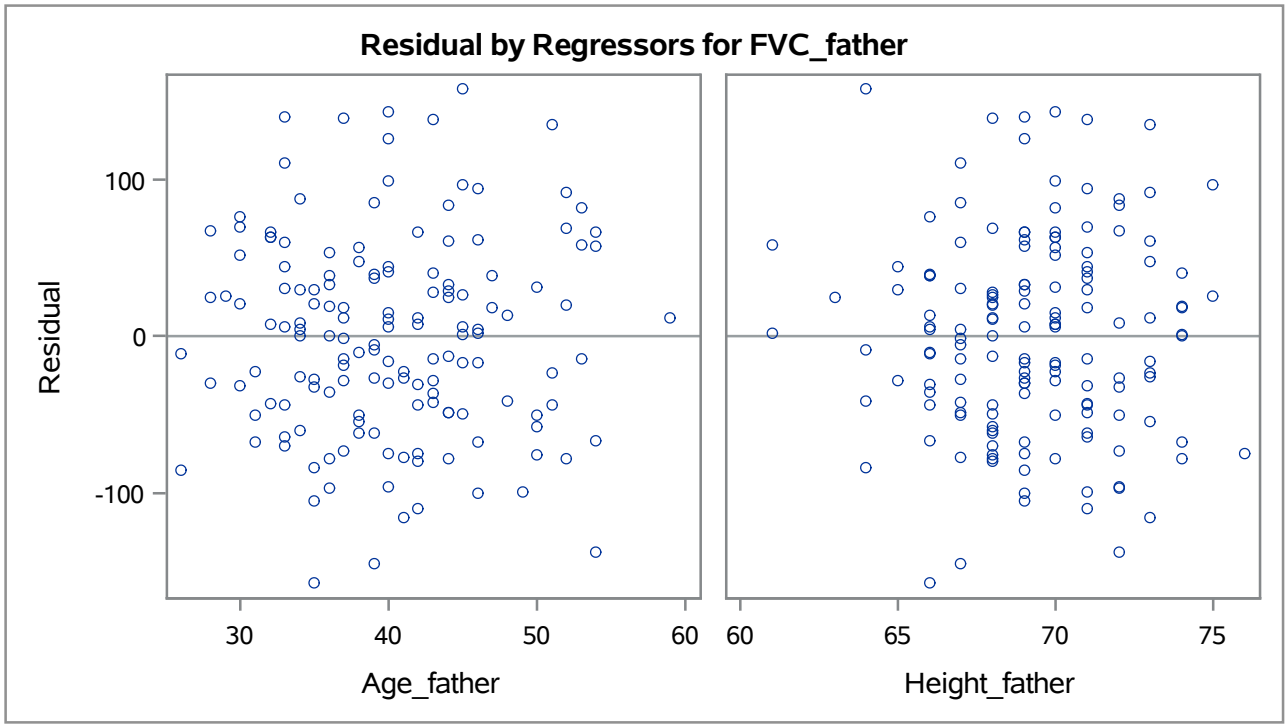
Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FVC_father



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FVC_father



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The UNIVARIATE Procedure
Variable: Res (Residual)

Moments			
N	150	**Sum Weights**	150
Mean	0	**Sum Observations**	0
Std Deviation	63.4787775	**Variance**	4029.55519
Skewness	0.13456441	**Kurtosis**	-0.2055406
Uncorrected SS	600403.723	**Corrected SS**	600403.723
Coeff Variation	.	**Std Error Mean**	5.18302048

Basic Statistical Measures			
Location		**Variability**	
Mean	0.00000	**Std Deviation**	63.47878
Median	1.13286	**Variance**	4030
Mode	62.83319	**Range**	315.41670
		Interquartile Range	84.27263

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0	**Pr > |t|**	1.0000
Sign	**M**	3	**Pr >= |M|**	0.6832
Signed Rank	**S**	-95.5	**Pr >= |S|**	0.8585

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.993373	**Pr < W**	0.7222
Kolmogorov-Smirnov	**D**	0.033856	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.024238	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.204971	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	157.84388
99%	143.06350
95%	110.55520
90%	82.86880
75% Q3	40.14224
50% Median	1.13286

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

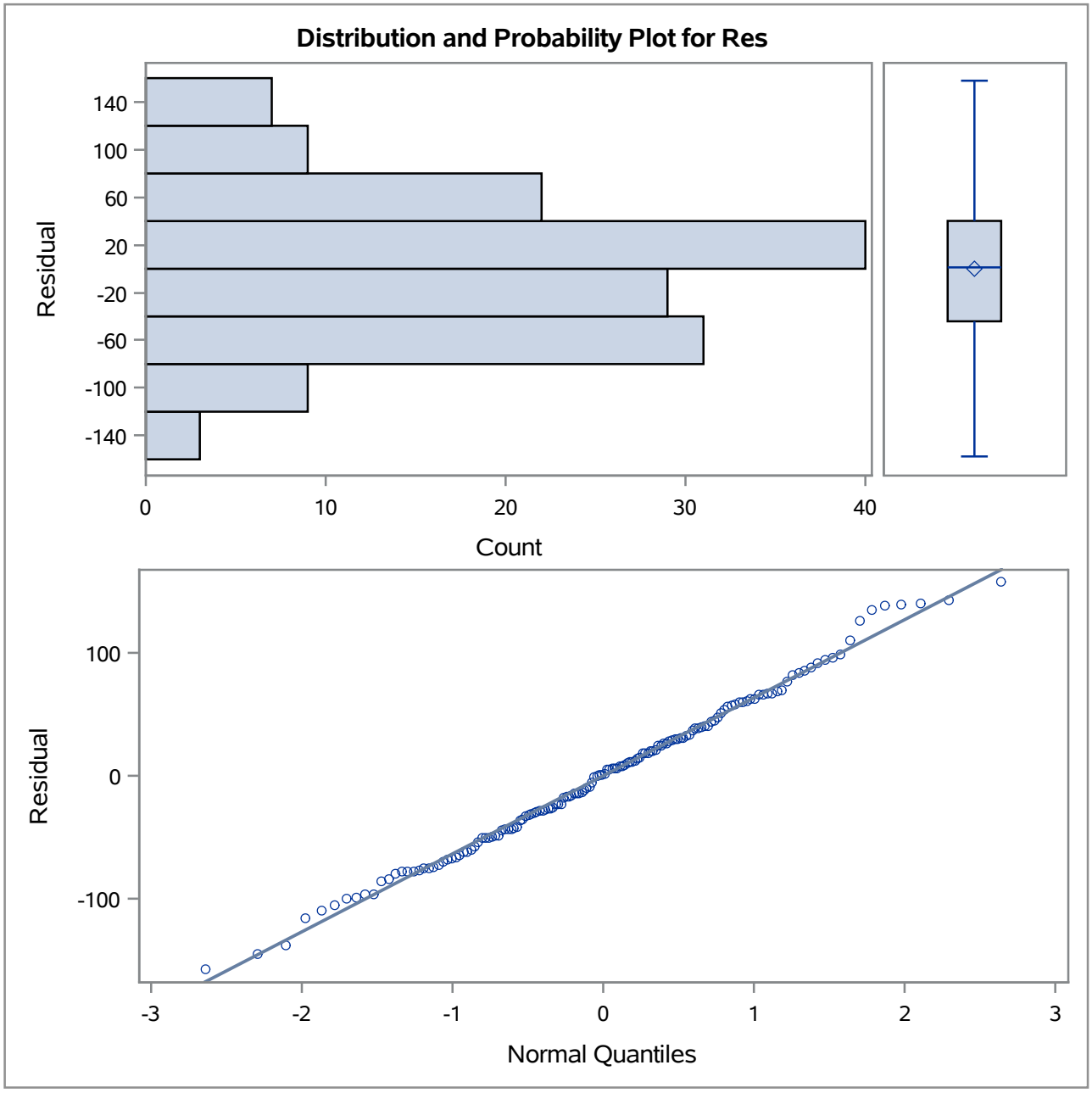
The UNIVARIATE Procedure
Variable: Res (Residual)

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	-44.13039
10%	-78.00694
5%	-99.24181
1%	-144.77207
0% Min	-157.57282

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
-157.573	40	138.085	102
-144.772	80	139.356	84
-137.662	18	139.926	21
-116.101	89	143.064	110
-109.693	85	157.844	87

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The UNIVARIATE Procedure



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The UNIVARIATE Procedure
Variable: rstudent (Studentized Residual without Current Obs)

Moments			
N	150	**Sum Weights**	150
Mean	0.00083137	**Sum Observations**	0.12470478
Std Deviation	1.00959217	**Variance**	1.01927635
Skewness	0.13709039	**Kurtosis**	-0.1547453
Uncorrected SS	151.872279	**Corrected SS**	151.872176
Coeff Variation	121437.867	**Std Error Mean**	0.08243286

Basic Statistical Measures			
Location		**Variability**	
Mean	0.000831	**Std Deviation**	1.00959
Median	0.018196	**Variance**	1.01928
Mode	0.991211	**Range**	5.09538
		Interquartile Range	1.33355

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.010085	**Pr > |t|**	0.9920
Sign	**M**	3	**Pr >= |M|**	0.6832
Signed Rank	**S**	-92.5	**Pr >= |S|**	0.8629

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.993575	**Pr < W**	0.7452
Kolmogorov-Smirnov	**D**	0.032158	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.023397	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.203789	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.558730
99%	2.278383
95%	1.758922
90%	1.315334
75% Q3	0.635789
50% Median	0.018196

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

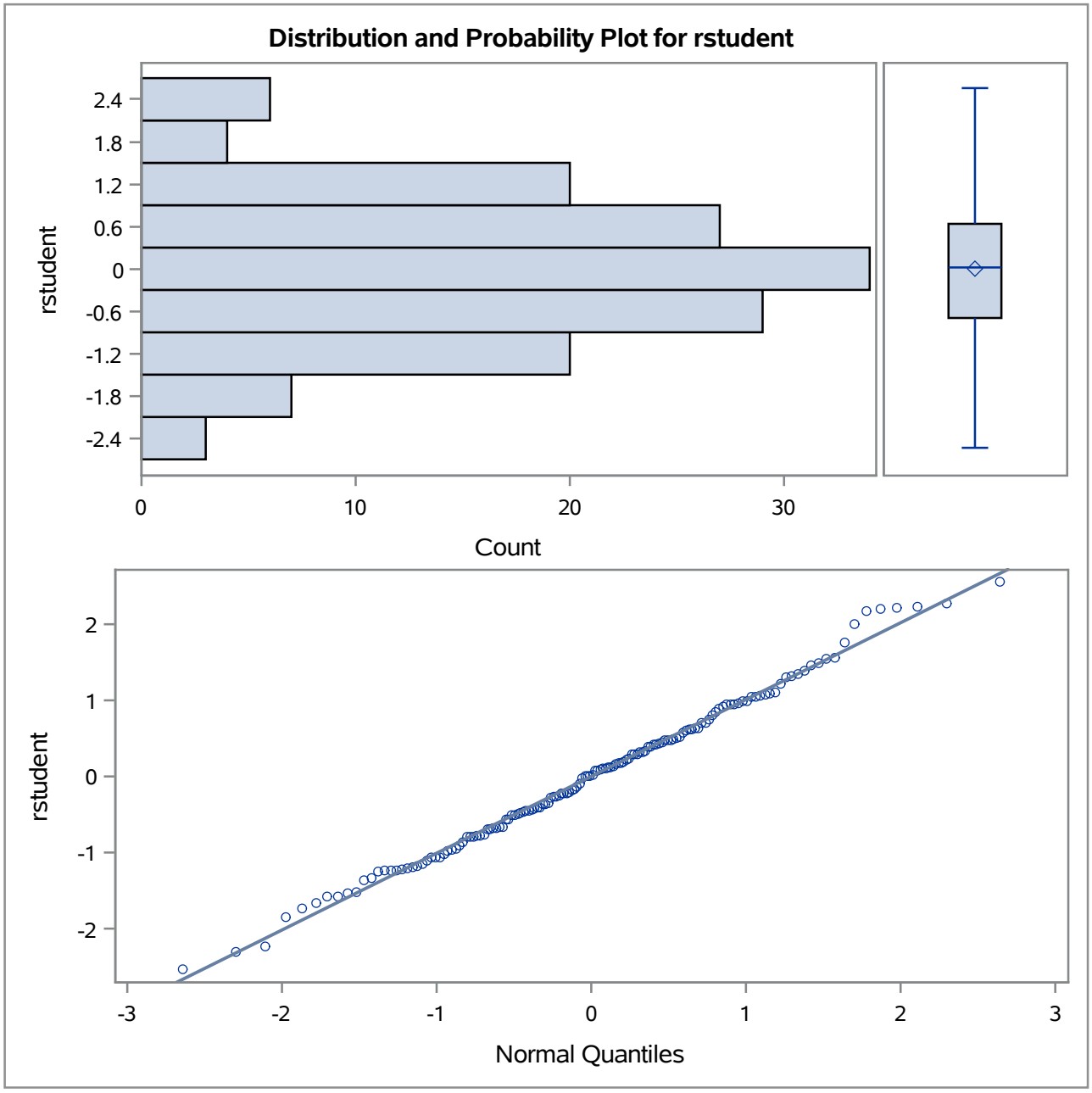
The UNIVARIATE Procedure
Variable: rstudent (Studentized Residual without Current Obs)

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	-0.697758
10%	-1.234229
5%	-1.577400
1%	-2.311724
0% Min	-2.536653

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
-2.53665	40	2.20048	102
-2.31172	80	2.22016	84
-2.23027	18	2.23472	21
-1.84929	89	2.27838	110
-1.73677	85	2.55873	87

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The UNIVARIATE Procedure



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FEV1_father

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	2	175231	87615	28.26	<.0001
Error	147	455752	3100.35477		
Corrected Total	149	630983			

Root MSE	55.68083	**R-Square**	0.2777
Dependent Mean	409.32667	**Adj R-Sq**	0.2679
Coeff Var	13.60303		

Parameter Estimates							
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**Standardized Estimate**	**Variance Inflation**
Intercept	1	-471.35636	117.35507	-4.02	<.0001	0	0
Weight_father	1	-0.48584	0.22313	-2.18	0.0310	-0.17884	1.37290
Height_father	1	13.99289	1.92315	7.28	<.0001	0.59760	1.37290

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

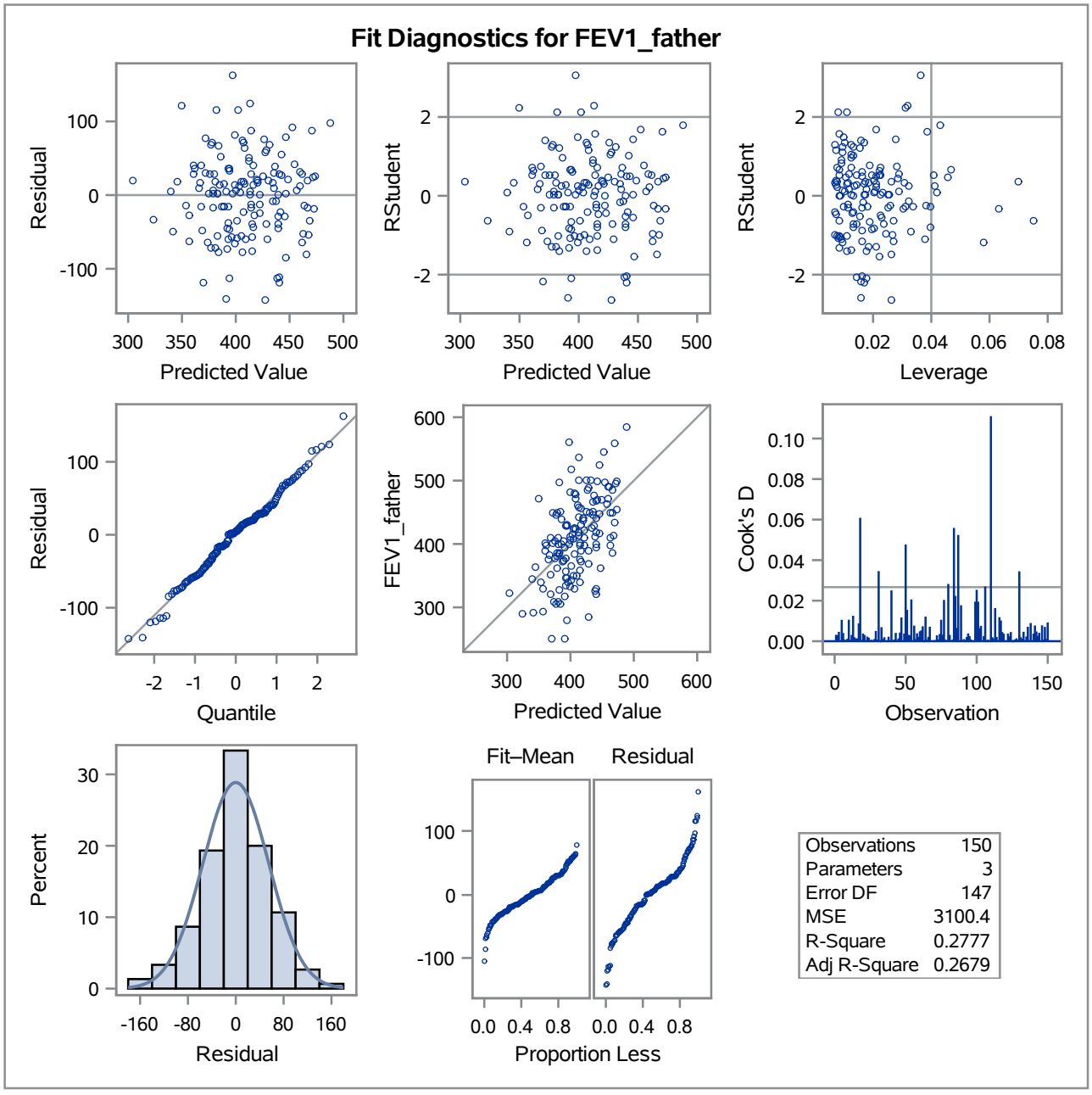
The REG Procedure
Model: MODEL1
Dependent Variable: FEV1_father

Durbin-Watson D	1.915
Pr < DW	0.3007
Pr > DW	0.6993
Number of Observations	150
1st Order Autocorrelation	0.039

Note: Pr<DW is the p-value for testing positive autocorrelation, and Pr>DW is the p-value for testing negative autocorrelation.

Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FEV1_father



Multiple Regression FVC_father vs. Age_Father Height_father : Lung dataset

The REG Procedure
Model: MODEL1
Dependent Variable: FEV1_father