

**SL STEPWISE Selection with PctBodyFat2****The GLMSELECT Procedure**

<b>Data Set</b>	STAT1.BODYFAT2
<b>Dependent Variable</b>	PctBodyFat2
<b>Selection Method</b>	Stepwise
<b>Select Criterion</b>	Significance Level
<b>Stop Criterion</b>	Significance Level
<b>Entry Significance Level (SLE)</b>	0.15
<b>Stay Significance Level (SLS)</b>	0.15
<b>Effect Hierarchy Enforced</b>	None

<b>Number of Observations Read</b>	252
<b>Number of Observations Used</b>	252

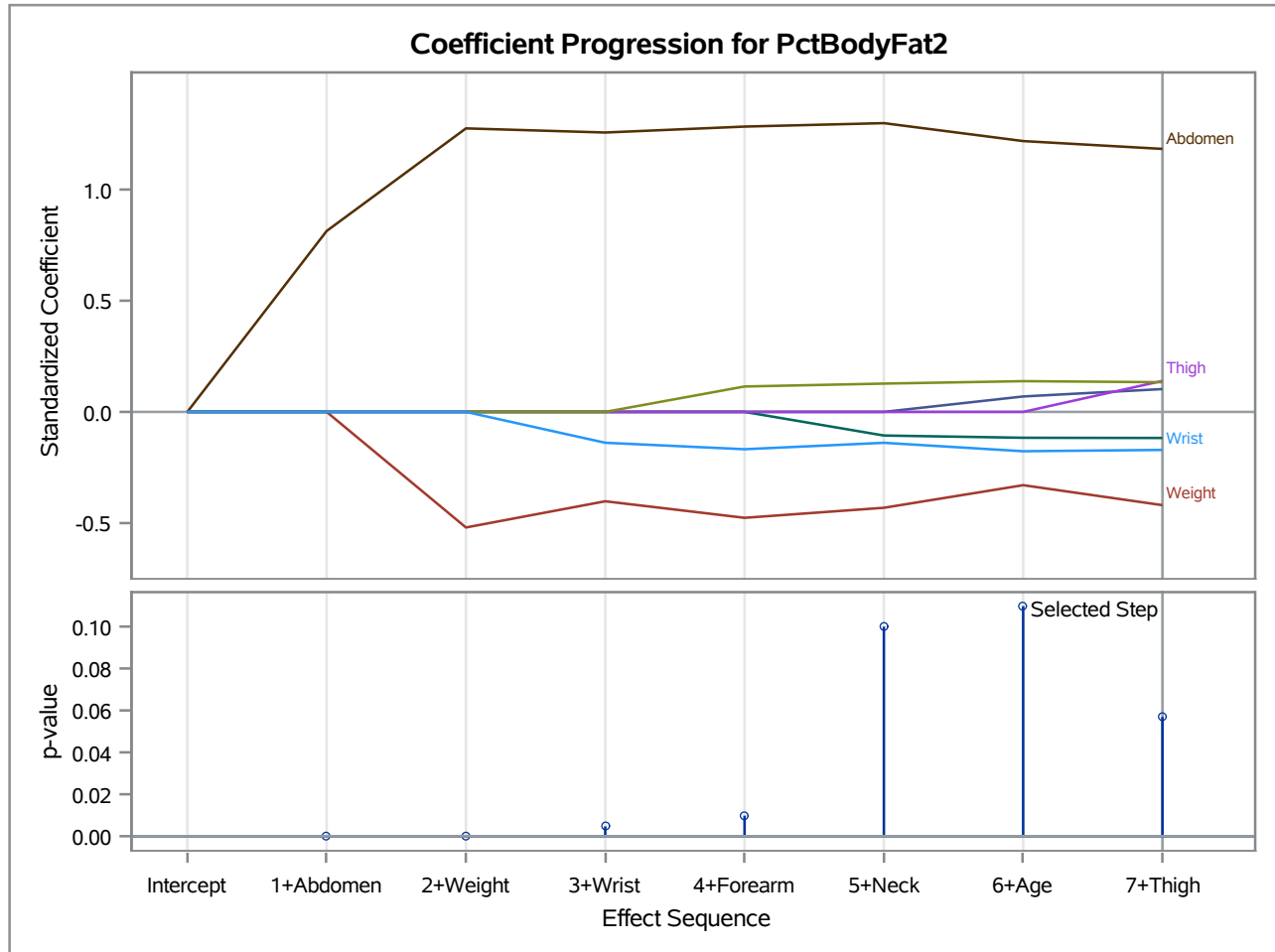
<b>Dimensions</b>	
<b>Number of Effects</b>	14
<b>Number of Parameters</b>	14

**SL STEPWISE Selection with PctBodyFat2****The GLMSELECT Procedure**

Stepwise Selection Summary					
Step	Effect Entered	Effect Removed	Number Effects In	F Value	Pr > F
0	Intercept		1	0.00	1.0000
1	Abdomen		2	488.93	<.0001
2	Weight		3	50.58	<.0001
3	Wrist		4	8.15	0.0047
4	Forearm		5	6.78	0.0098
5	Neck		6	2.73	0.1000
6	Age		7	2.58	0.1098
7	Thigh		8	3.66	0.0569

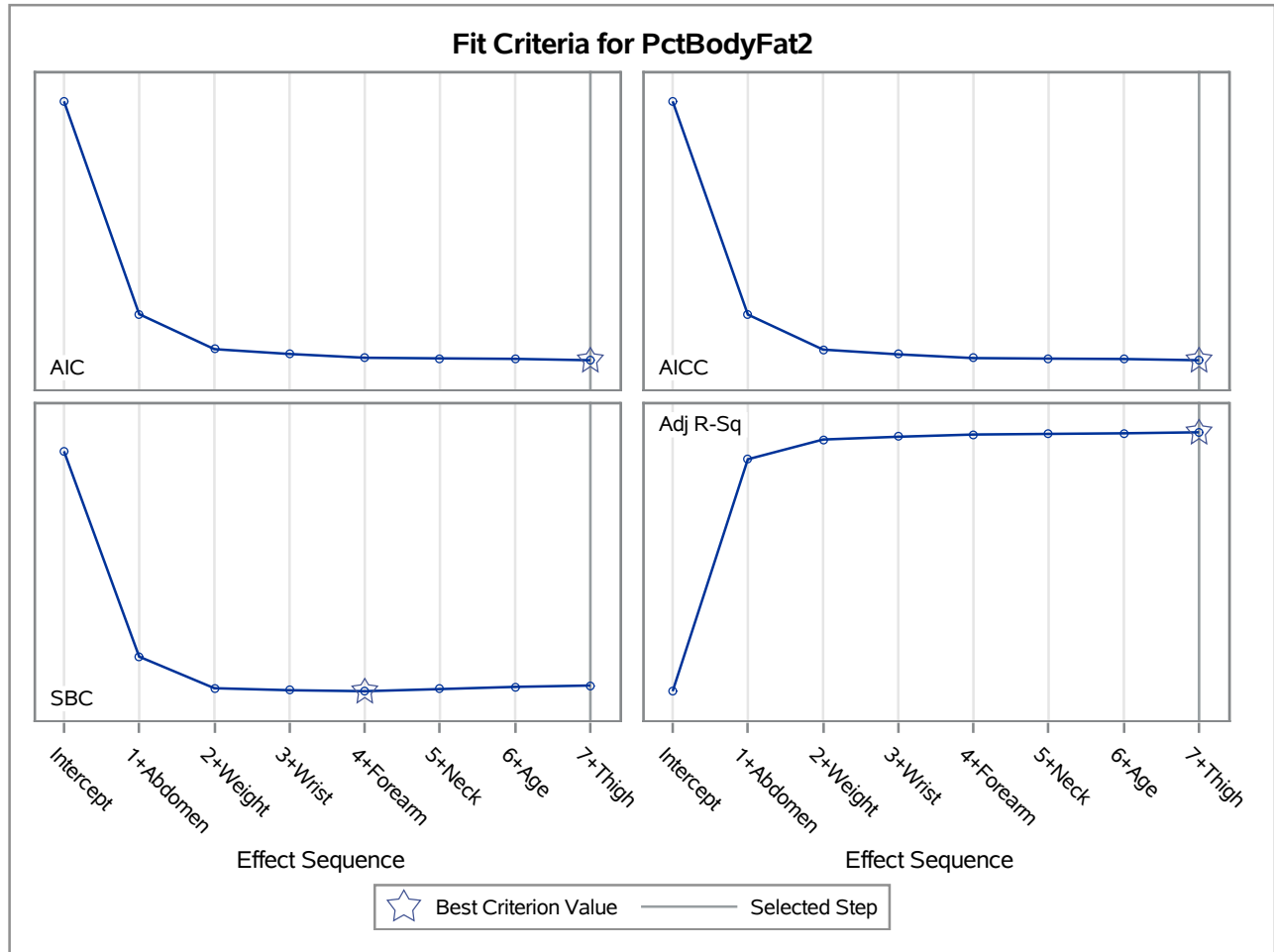
Selection stopped because the candidate for entry has SLE > 0.15 and the candidate for removal has SLS < 0.15.

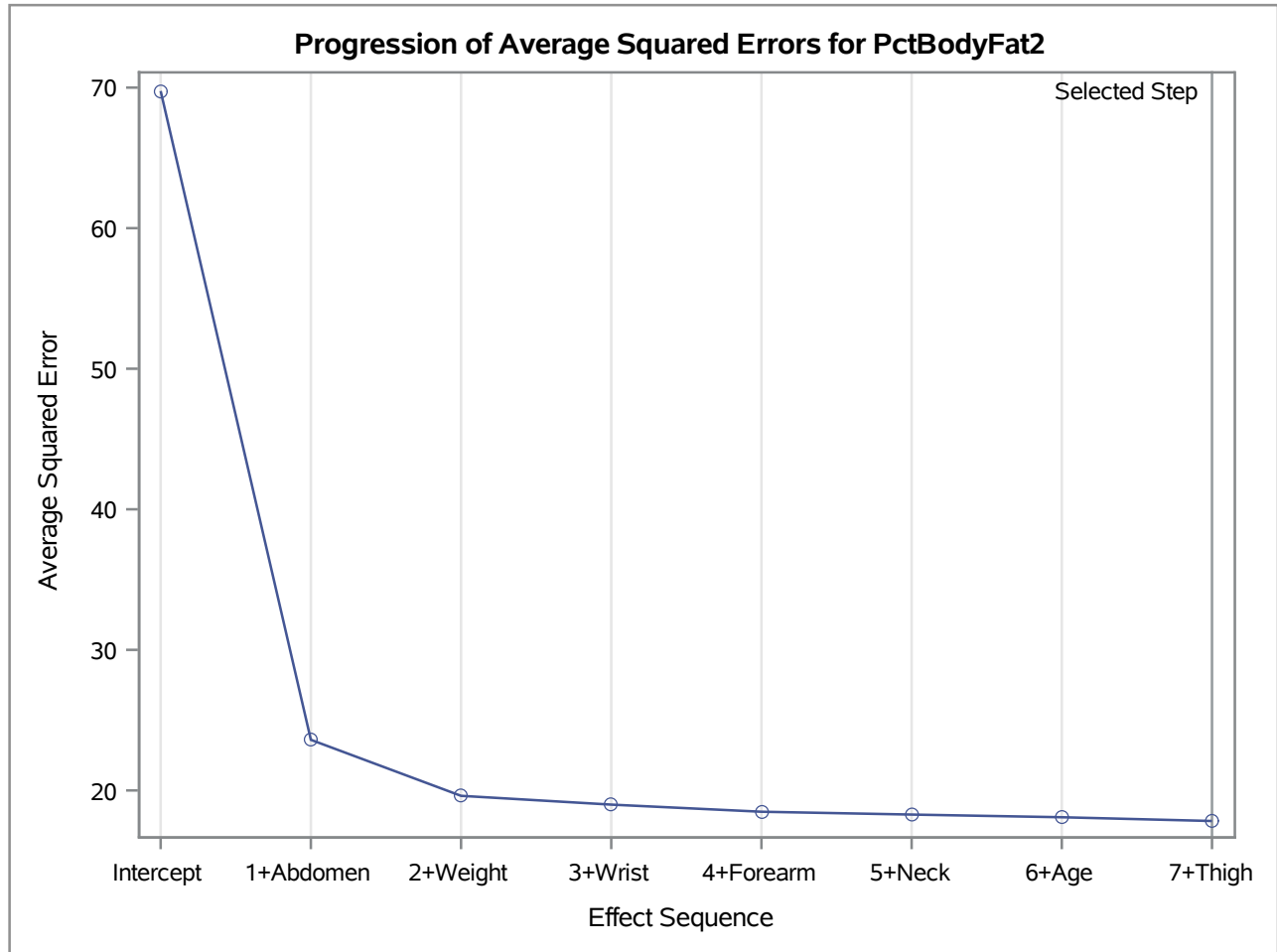
Stop Details					
Candidate For	Effect	Candidate Significance		Compare Significance	
Entry	Hip	0.1594	>	0.1500	(SLE)
Removal	Neck	0.0684	<	0.1500	(SLS)

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## The GLMSELECT Procedure



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**SL STEPWISE Selection with PctBodyFat2****The GLMSELECT Procedure  
Selected Model****The selected model is the model at the last step (Step 7).**

<b>Effects:</b>	Intercept Age Weight Neck Abdomen Thigh Forearm Wrist
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	7	13087	1869.59160	101.56
Error	244	4491.84861	18.40922	
Corrected Total	251	17579		

Root MSE	4.29060
Dependent Mean	19.15079
R-Square	0.7445
Adj R-Sq	0.7371
AIC	995.90881
AICC	996.65261
SBC	770.14425

Parameter Estimates				
Parameter	DF	Estimate	Standard Error	t Value
Intercept	1	-33.257991	9.006812	-3.69
Age	1	0.068166	0.030792	2.21
Weight	1	-0.119441	0.034025	-3.51
Neck	1	-0.403802	0.220620	-1.83
Abdomen	1	0.917885	0.069499	13.21
Thigh	1	0.221960	0.116013	1.91
Forearm	1	0.553139	0.184788	2.99
Wrist	1	-1.532401	0.510415	-3.00

**SL FORWARD Selection with PctBodyFat2****The GLMSELECT Procedure**

<b>Data Set</b>	STAT1.BODYFAT2
<b>Dependent Variable</b>	PctBodyFat2
<b>Selection Method</b>	Forward
<b>Select Criterion</b>	Significance Level
<b>Stop Criterion</b>	Significance Level
<b>Entry Significance Level (SLE)</b>	0.5
<b>Effect Hierarchy Enforced</b>	None

<b>Number of Observations Read</b>	252
<b>Number of Observations Used</b>	252

<b>Dimensions</b>	
<b>Number of Effects</b>	14
<b>Number of Parameters</b>	14

**SL FORWARD Selection with PctBodyFat2****The GLMSELECT Procedure**

Forward Selection Summary				
Step	Effect Entered	Number Effects In	F Value	Pr > F
0	Intercept	1	0.00	1.0000
1	Abdomen	2	488.93	<.0001
2	Weight	3	50.58	<.0001
3	Wrist	4	8.15	0.0047
4	Forearm	5	6.78	0.0098
5	Neck	6	2.73	0.1000
6	Age	7	2.58	0.1098
7	Thigh	8	3.66	0.0569
8	Hip	9	1.99	0.1594
9	Biceps	10	1.13	0.2888
10	Ankle	11	0.72	0.3957

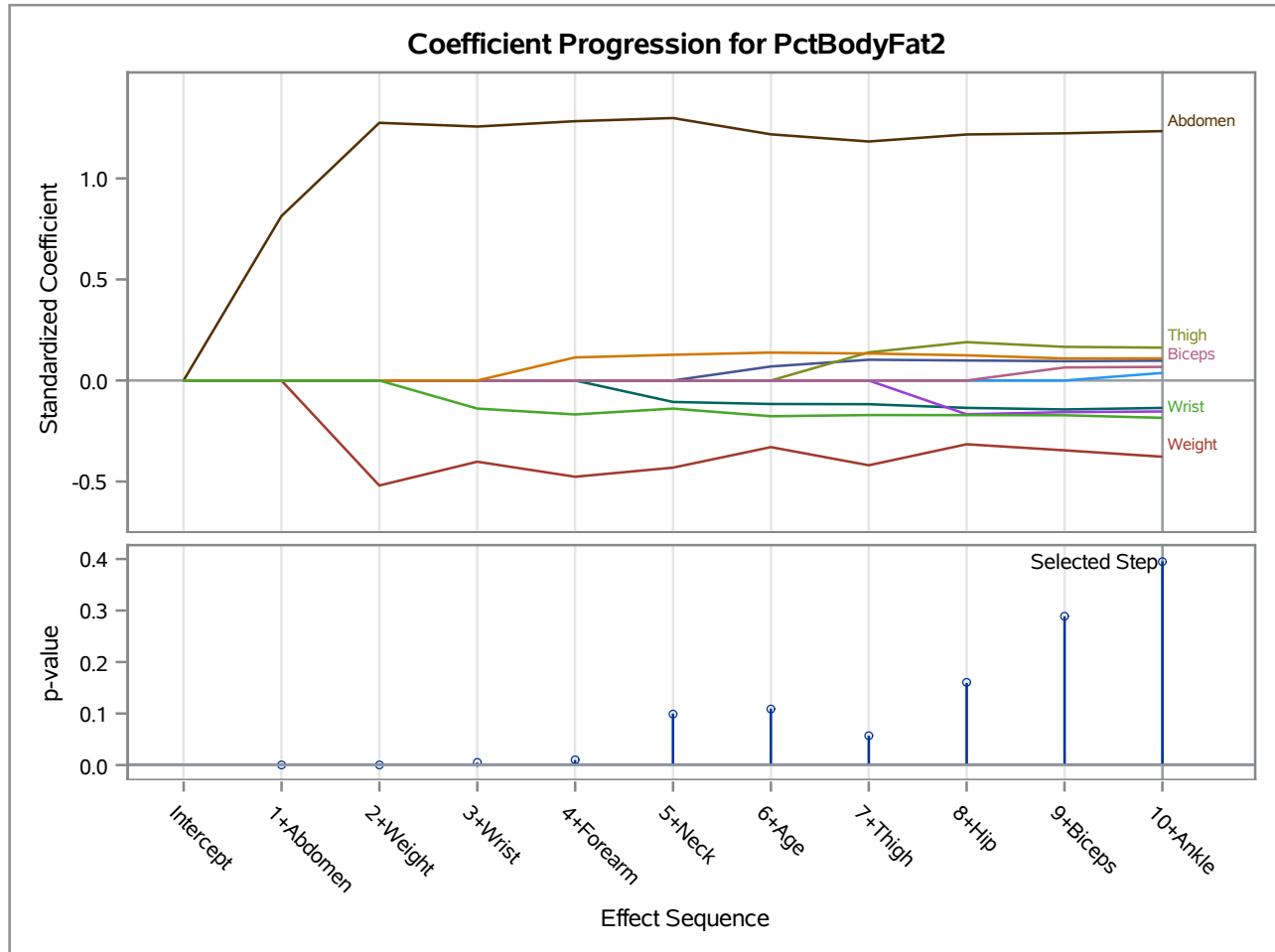
Selection stopped as the candidate for entry has SLE > 0.5.

Stop Details					
Candidate For	Effect	Candidate Significance		Compare Significance	
Entry	Height	0.8473	>	0.5000	(SLE)



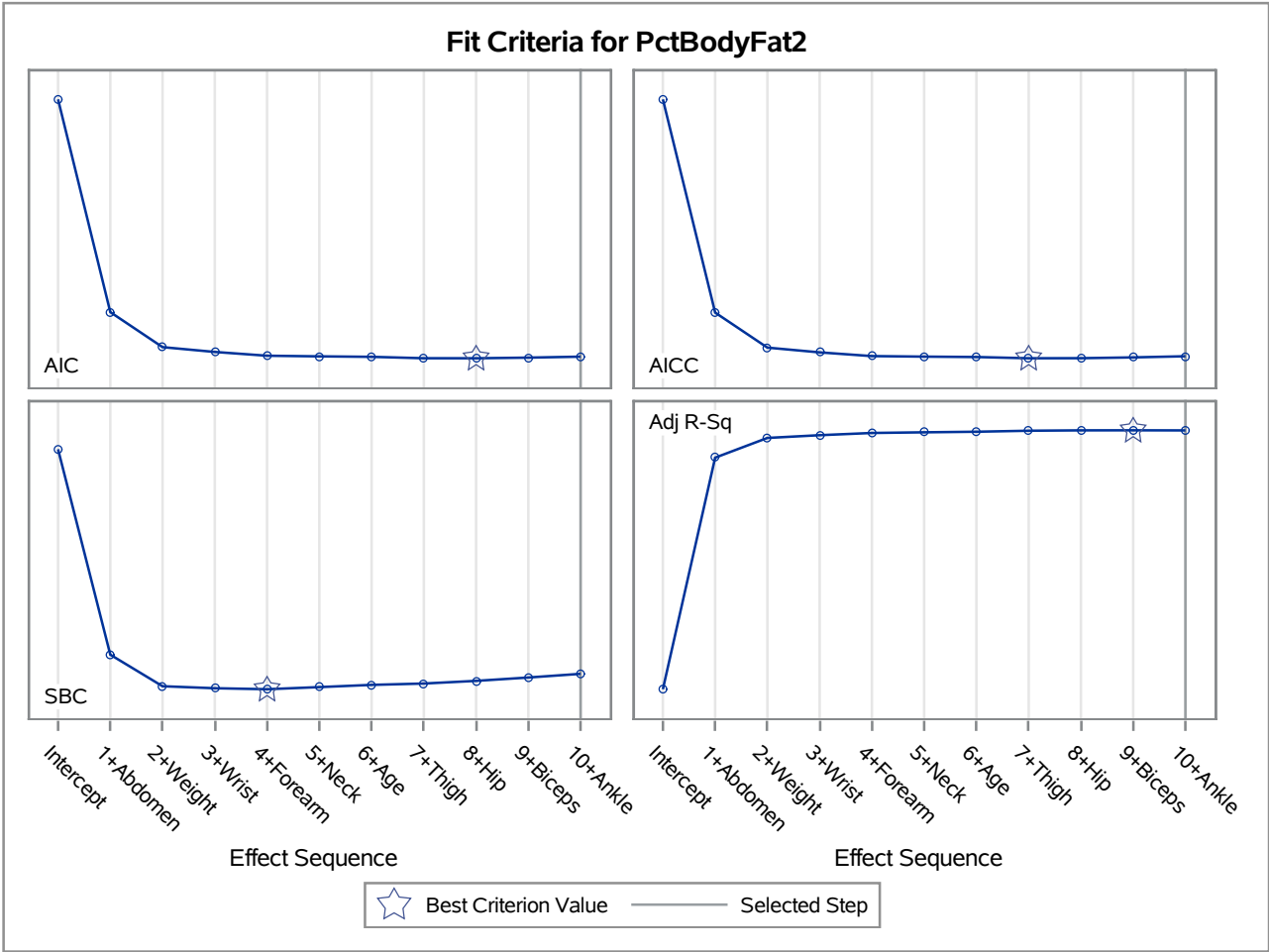
## SL FORWARD Selection with PctBodyFat2

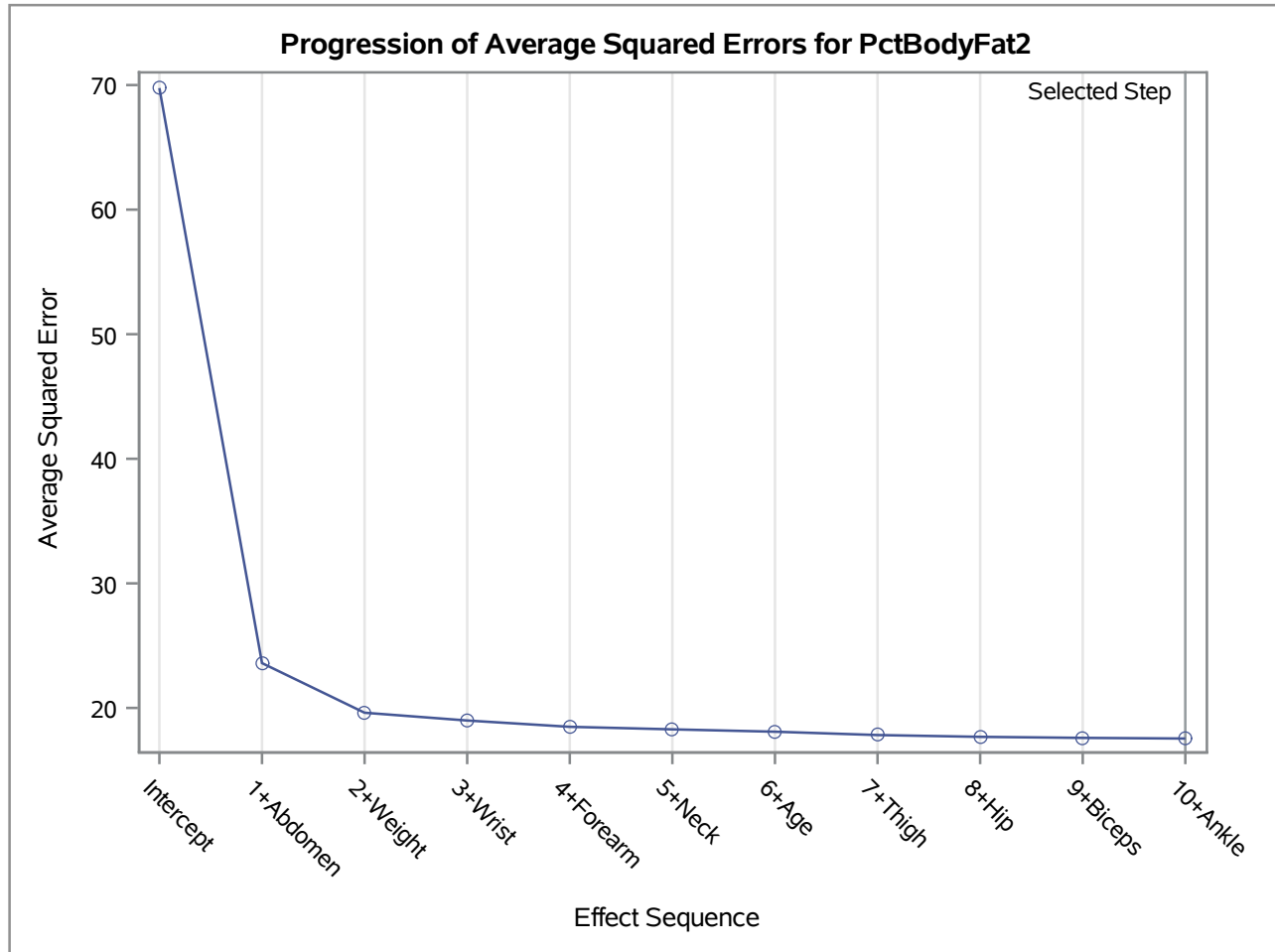
## The GLMSELECT Procedure



SL FORWARD Selection with PctBodyFat2

The GLMSELECT Procedure



**SL FORWARD Selection with PctBodyFat2****The GLMSELECT Procedure**

**SL FORWARD Selection with PctBodyFat2****The GLMSELECT Procedure  
Selected Model****The selected model is the model at the last step (Step 10).**

<b>Effects:</b>	Intercept Age Weight Neck Abdomen Hip Thigh Ankle Biceps Forearm Wrist
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	10	13158	1315.76595	71.72
Error	241	4421.33035	18.34577	
Corrected Total	251	17579		

Root MSE	4.28320
Dependent Mean	19.15079
R-Square	0.7485
Adj R-Sq	0.7381
AIC	997.92124
AICC	999.22668
SBC	782.74496

Parameter Estimates				
Parameter	DF	Estimate	Standard Error	t Value
Intercept	1	-25.999624	12.153156	-2.14
Age	1	0.065093	0.030919	2.11
Weight	1	-0.107396	0.042068	-2.55
Neck	1	-0.467490	0.228115	-2.05
Abdomen	1	0.957721	0.072760	13.16
Hip	1	-0.179124	0.139083	-1.29
Thigh	1	0.259259	0.133892	1.94
Ankle	1	0.184526	0.216864	0.85
Biceps	1	0.186171	0.168580	1.10
Forearm	1	0.453031	0.195932	2.31
Wrist	1	-1.656662	0.527061	-3.14

**SL FORWARD (0.05) Selection with PctBodyFat2****The GLMSELECT Procedure**

<b>Data Set</b>	STAT1.BODYFAT2
<b>Dependent Variable</b>	PctBodyFat2
<b>Selection Method</b>	Forward
<b>Select Criterion</b>	Significance Level
<b>Stop Criterion</b>	Significance Level
<b>Entry Significance Level (SLE)</b>	0.05
<b>Effect Hierarchy Enforced</b>	None

<b>Number of Observations Read</b>	252
<b>Number of Observations Used</b>	252

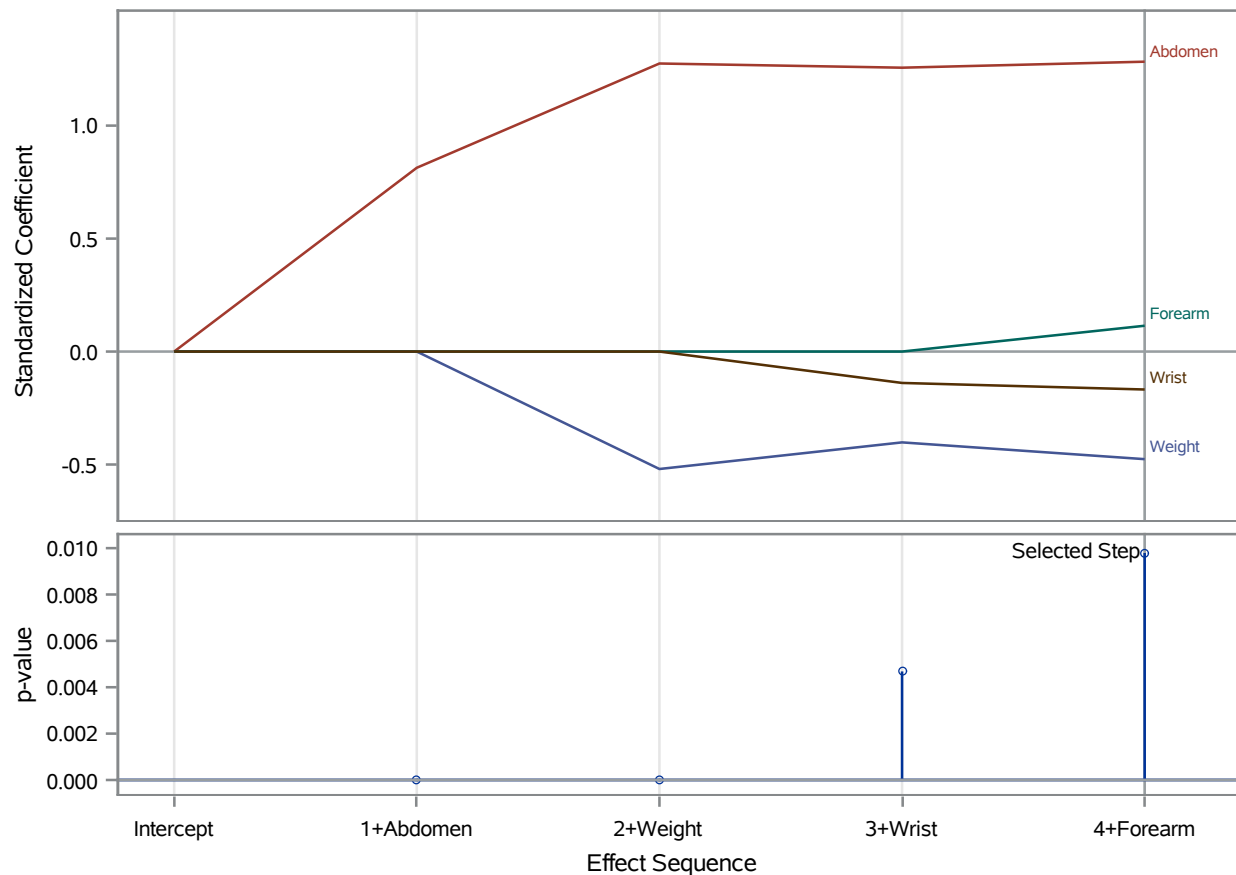
<b>Dimensions</b>	
<b>Number of Effects</b>	14
<b>Number of Parameters</b>	14

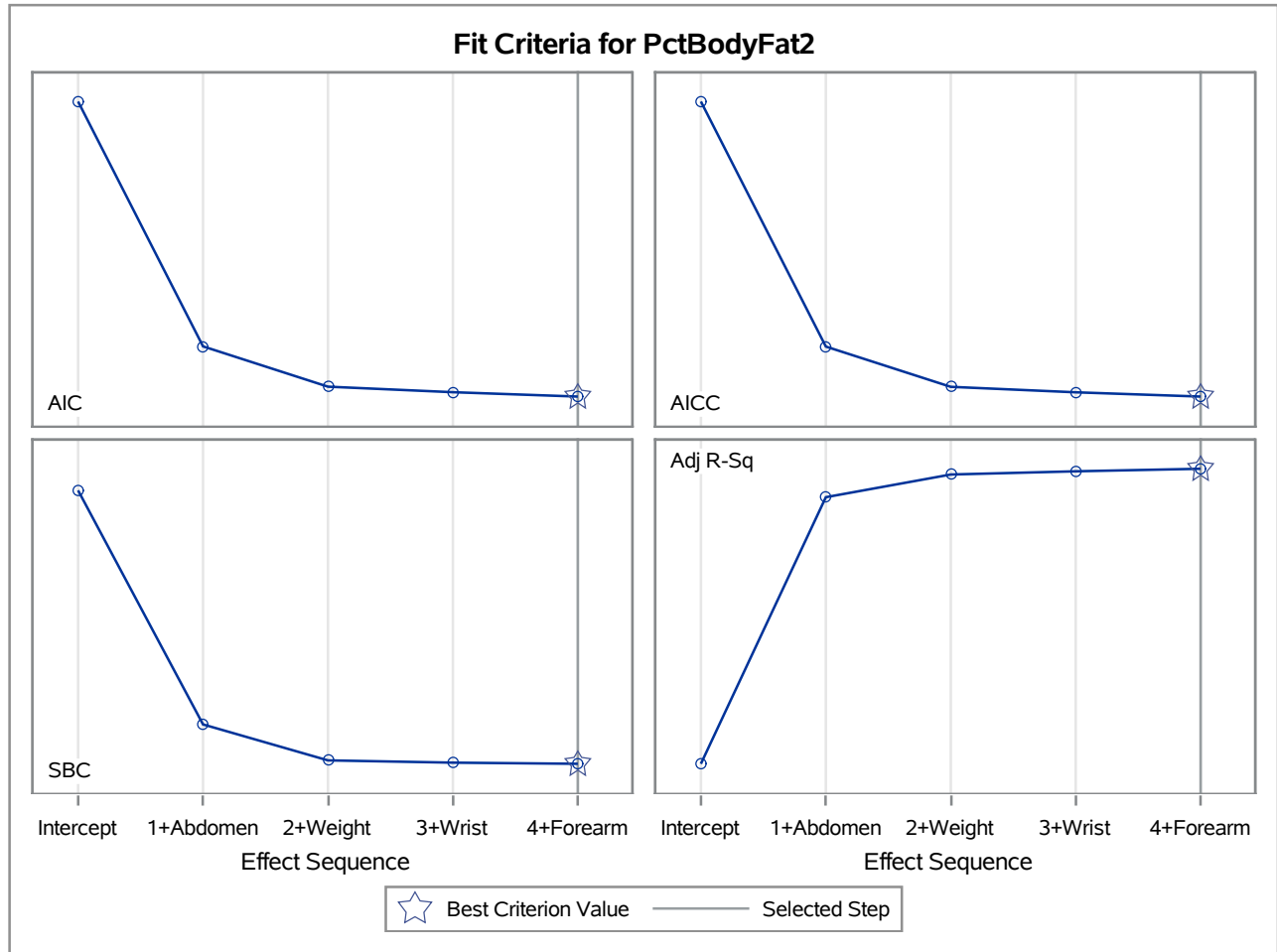
**SL FORWARD (0.05) Selection with PctBodyFat2****The GLMSELECT Procedure**

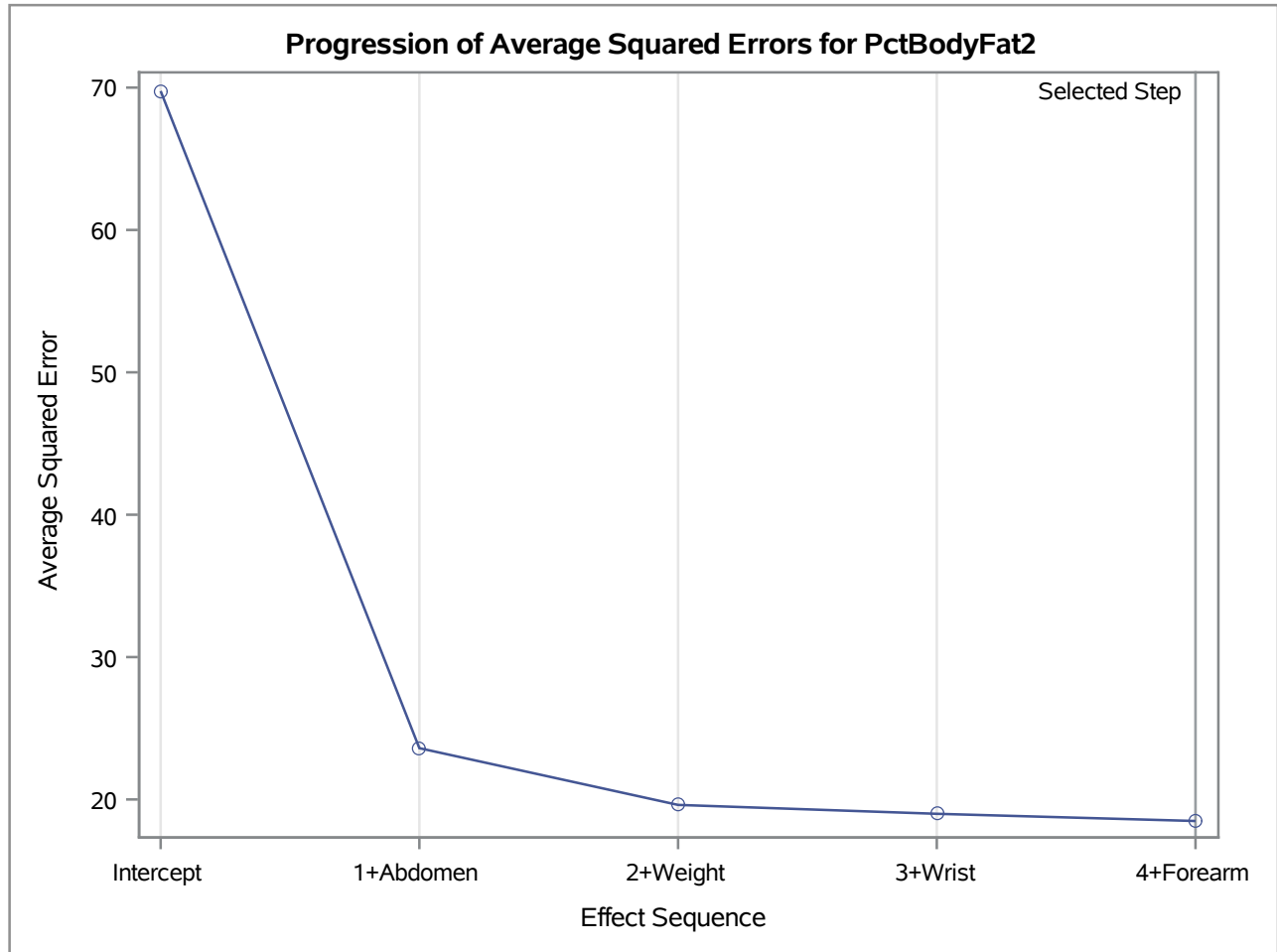
Forward Selection Summary				
Step	Effect Entered	Number Effects In	F Value	Pr > F
0	Intercept	1	0.00	1.0000
1	Abdomen	2	488.93	<.0001
2	Weight	3	50.58	<.0001
3	Wrist	4	8.15	0.0047
4	Forearm	5	6.78	0.0098

Selection stopped as the candidate for entry has SLE > 0.05.

Stop Details					
Candidate For	Effect	Candidate Significance		Compare Significance	
Entry	Neck	0.1000	>	0.0500	(SLE)

**Coefficient Progression for PctBodyFat2**

**SL FORWARD (0.05) Selection with PctBodyFat2****The GLMSELECT Procedure**

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**SL FORWARD (0.05) Selection with PctBodyFat2****The GLMSELECT Procedure  
Selected Model****The selected model is the model at the last step (Step 4).**

<b>Effects:</b>	Intercept Weight Abdomen Forearm Wrist
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	4	12921	3230.18852	171.28
Error	247	4658.23577	18.85925	
Corrected Total	251	17579		

Root MSE	4.34272
Dependent Mean	19.15079
R-Square	0.7350
Adj R-Sq	0.7307
AIC	999.07467
AICC	999.41753
SBC	762.72182

Parameter Estimates				
Parameter	DF	Estimate	Standard Error	t Value
Intercept	1	-34.854074	7.245005	-4.81
Weight	1	-0.135631	0.024748	-5.48
Abdomen	1	0.995751	0.056066	17.76
Forearm	1	0.472928	0.181661	2.60
Wrist	1	-1.505562	0.442666	-3.40