

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Gender	2	Female Male

Number of Observations Read	3000
Number of Observations Used	3000

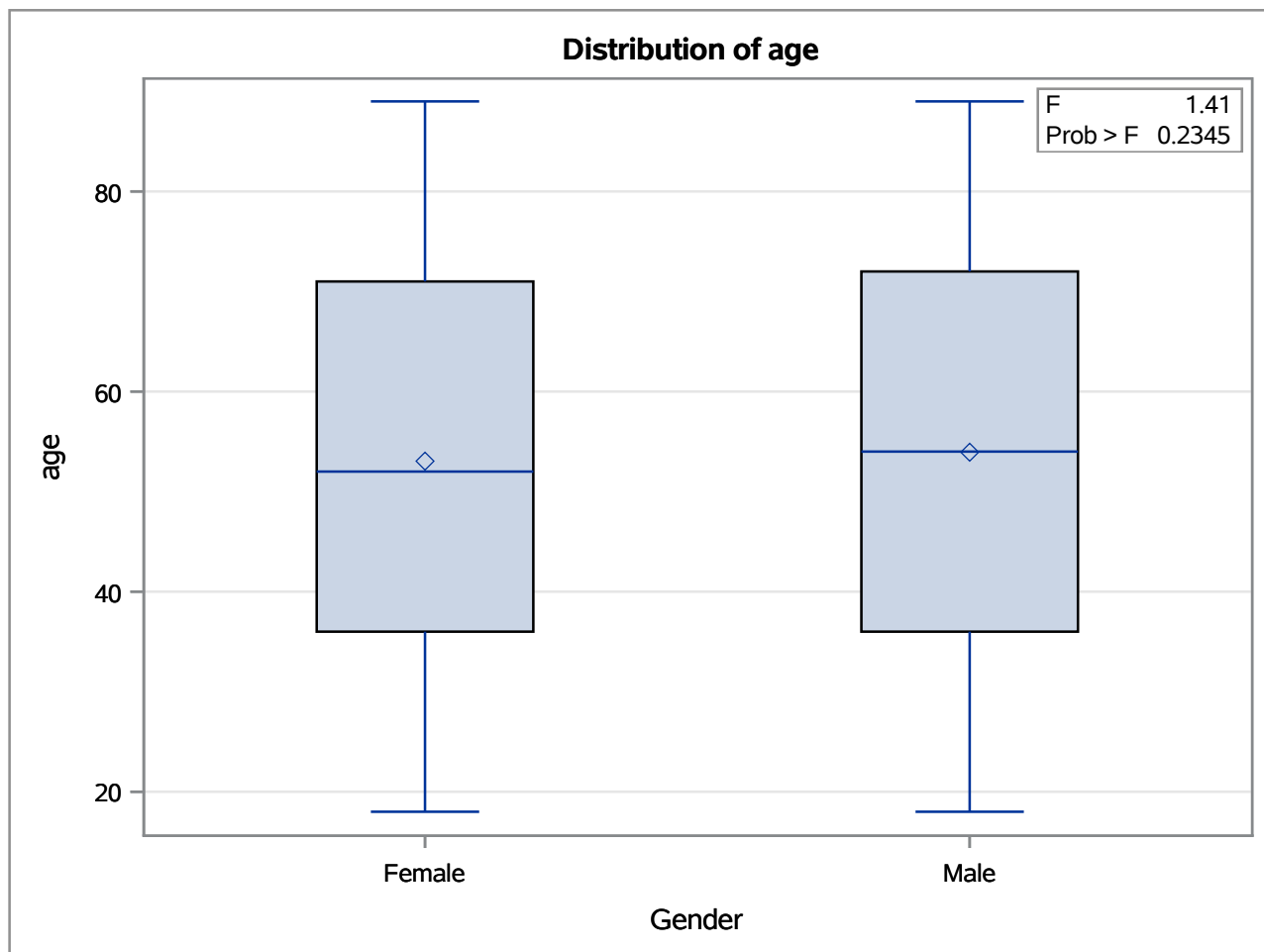
The ANOVA Procedure

Dependent Variable: age

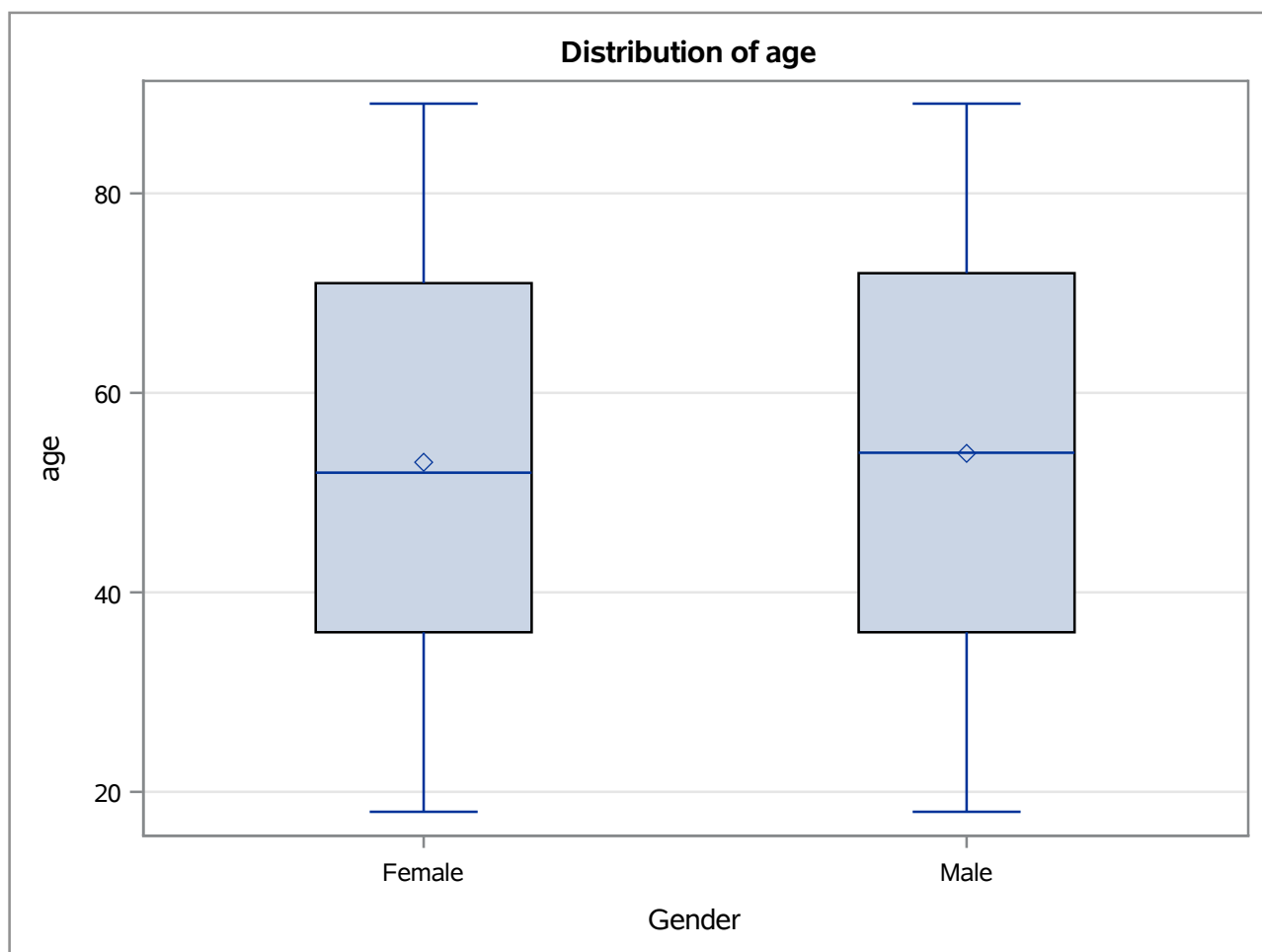
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	598.284	598.284	1.41	0.2345
Error	2998	1268315.100	423.054		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000471	38.45567	20.56827	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Gender	1	598.2838431	598.2838431	1.41	0.2345



The ANOVA Procedure



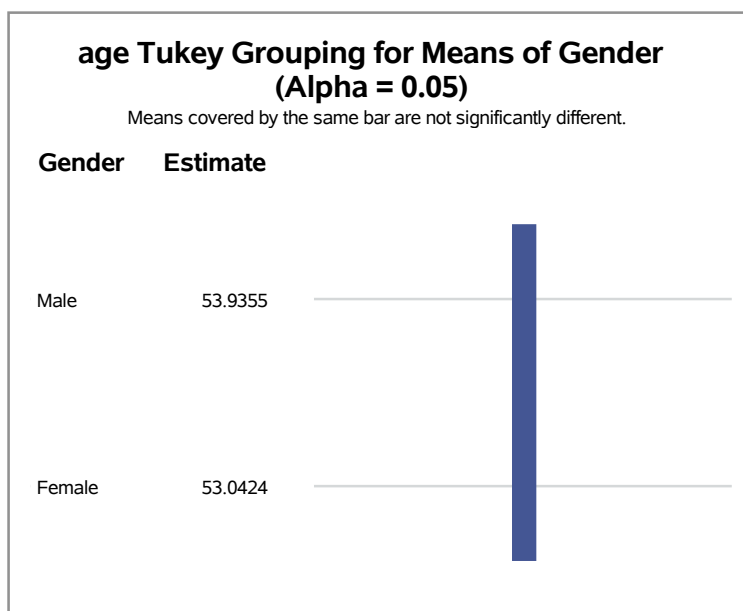
The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	2998
Error Mean Square	423.0537
Critical Value of Studentized Range	2.77293
Minimum Significant Difference	1.4727
Harmonic Mean of Cell Sizes	1499.919

Note: Cell sizes are not equal.



The ANOVA Procedure

Class Level Information		
Class	Levels	Values
activity_level	3	High Low Moderate

Number of Observations Read	3000
Number of Observations Used	3000

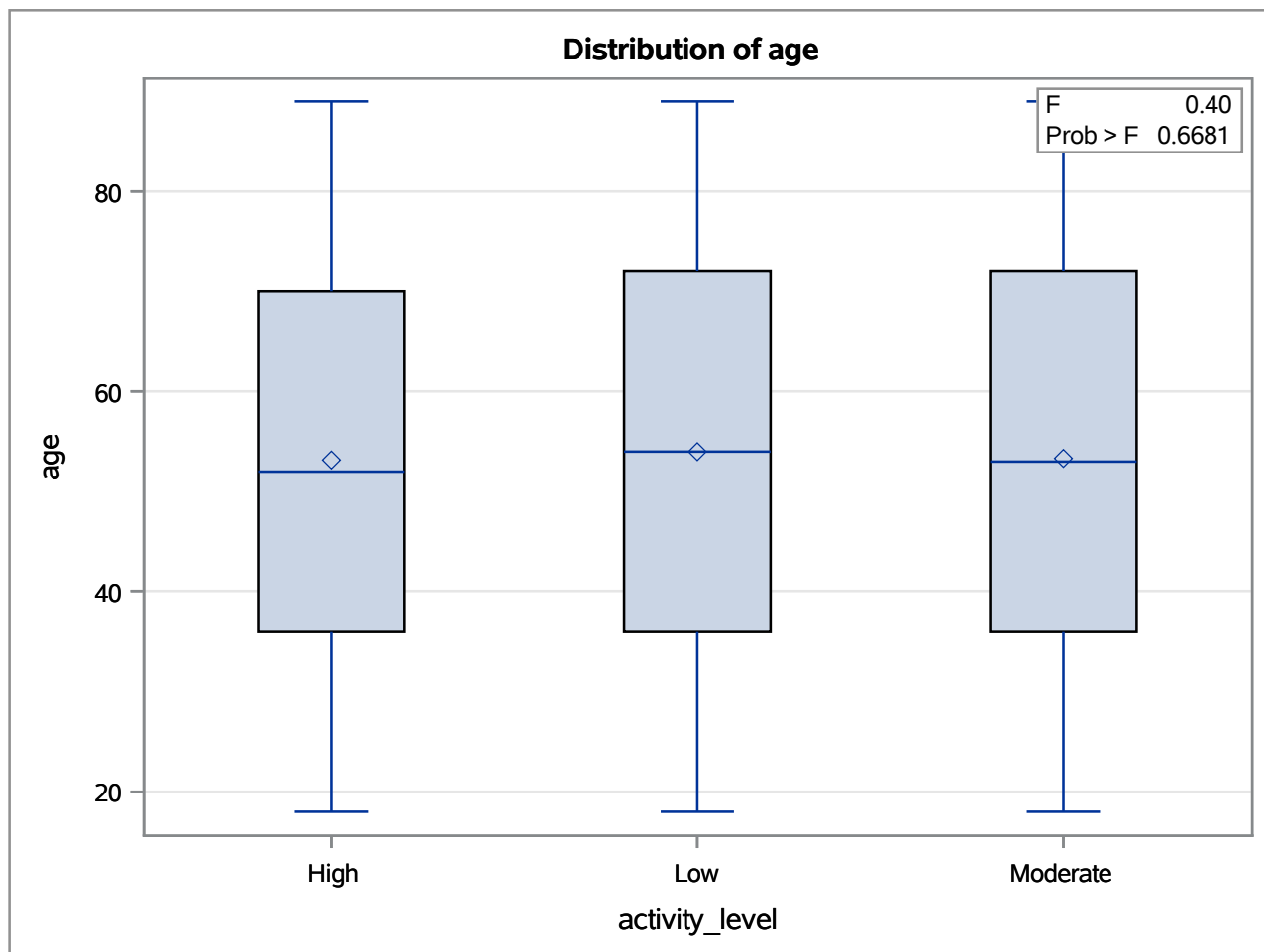
The ANOVA Procedure

Dependent Variable: age

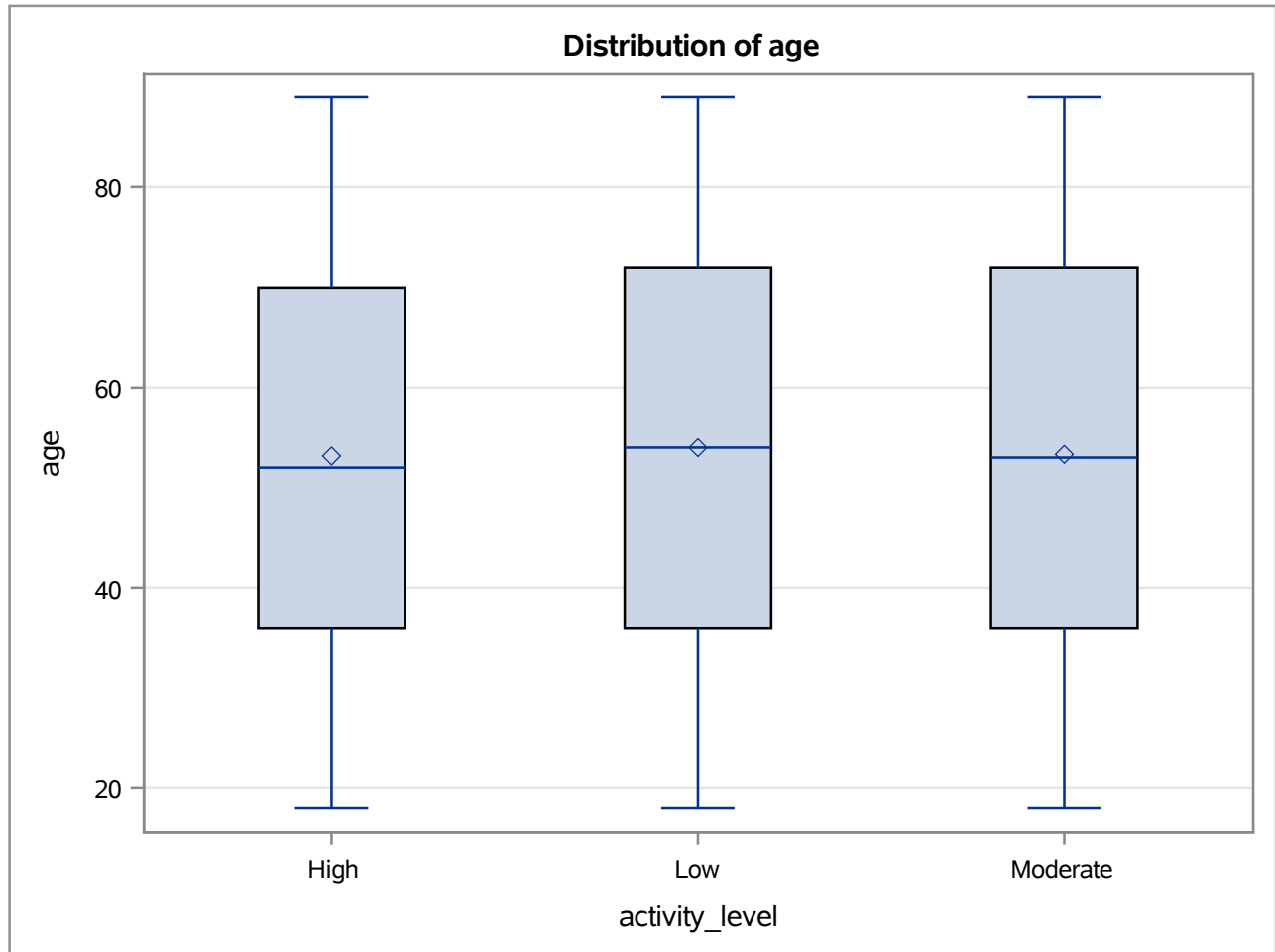
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	341.491	170.745	0.40	0.6681
Error	2997	1268571.893	423.281		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000269	38.46598	20.57378	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
activity_level	2	341.4907018	170.7453509	0.40	0.6681



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2997
Error Mean Square	423.2806
Critical Value of Studentized Range	3.31614

Comparisons significant at the 0.05 level are indicated by ***.				
activity_level Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Low - Moderate	0.6699	-1.3879	2.7276	
Low - High	0.8305	-1.6084	3.2694	
Moderate - Low	-0.6699	-2.7276	1.3879	
Moderate - High	0.1606	-2.0804	2.4017	
High - Low	-0.8305	-3.2694	1.6084	
High - Moderate	-0.1606	-2.4017	2.0804	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Smoking_Status	3	Current Former Never

Number of Observations Read	3000
Number of Observations Used	3000

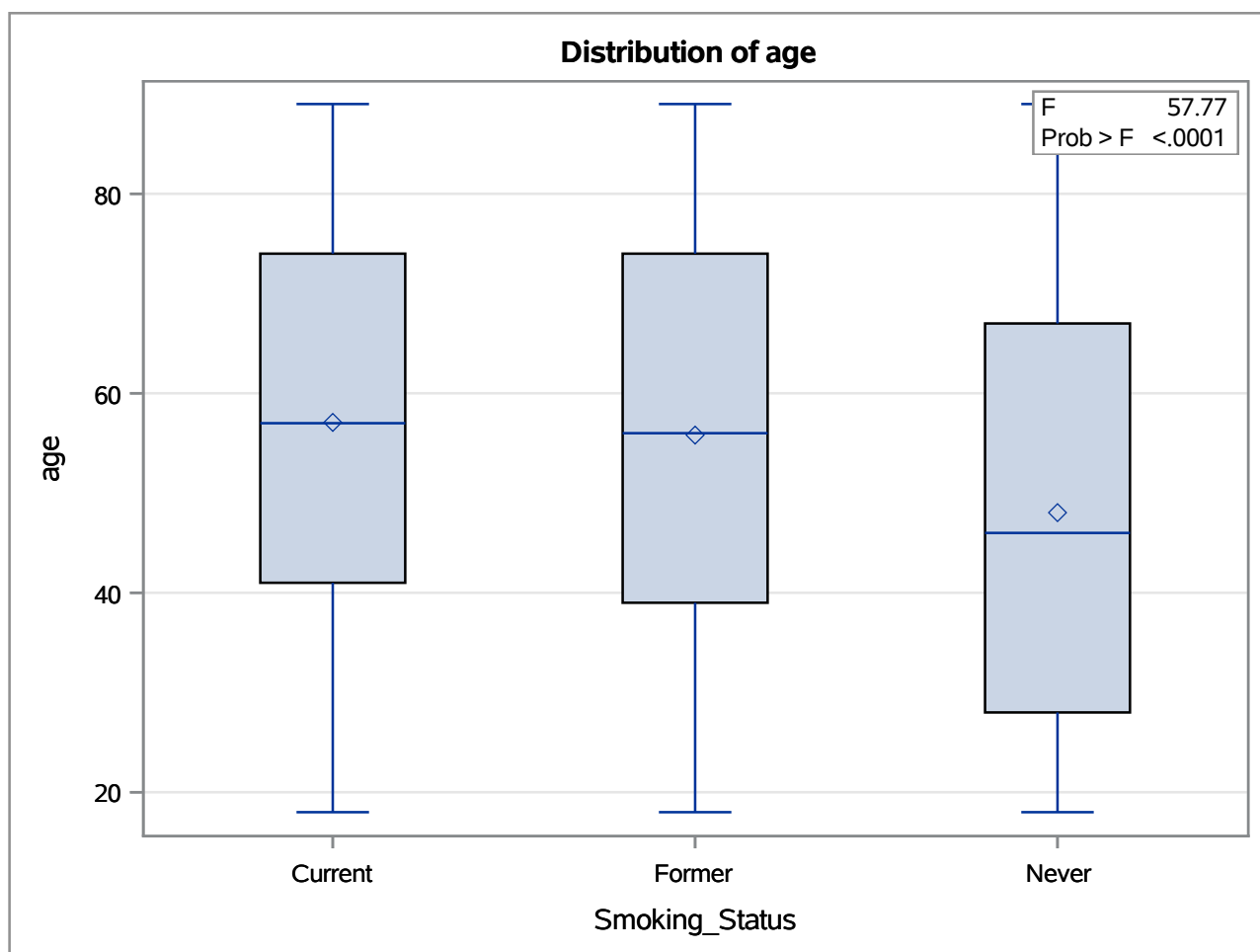
The ANOVA Procedure

Dependent Variable: age

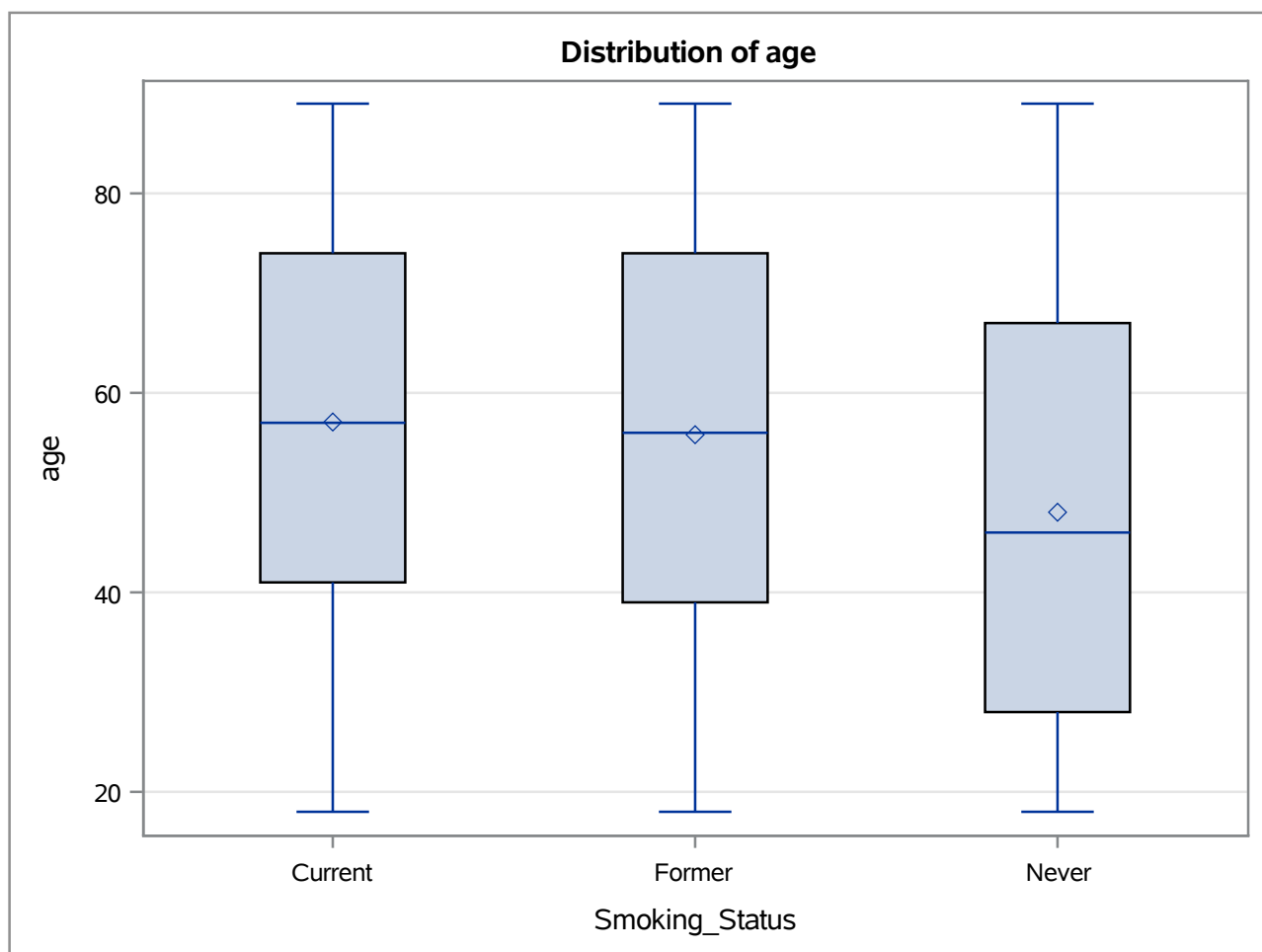
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	47106.831	23553.415	57.77	<.0001
Error	2997	1221806.553	407.677		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.037124	37.75030	20.19100	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Smoking_Status	2	47106.83076	23553.41538	57.77	<.0001



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2997
Error Mean Square	407.6765
Critical Value of Studentized Range	3.31614

Comparisons significant at the 0.05 level are indicated by ***.				
Smoking_Status Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Current - Former	1.2708	-0.9028	3.4445	
Current - Never	9.0453	6.8067	11.2840	***
Former - Current	-1.2708	-3.4445	0.9028	
Former - Never	7.7745	5.7539	9.7951	***
Never - Current	-9.0453	-11.2840	-6.8067	***
Never - Former	-7.7745	-9.7951	-5.7539	***

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Alcohol_Consumption	3	Frequent None Occasional

Number of Observations Read	3000
Number of Observations Used	3000

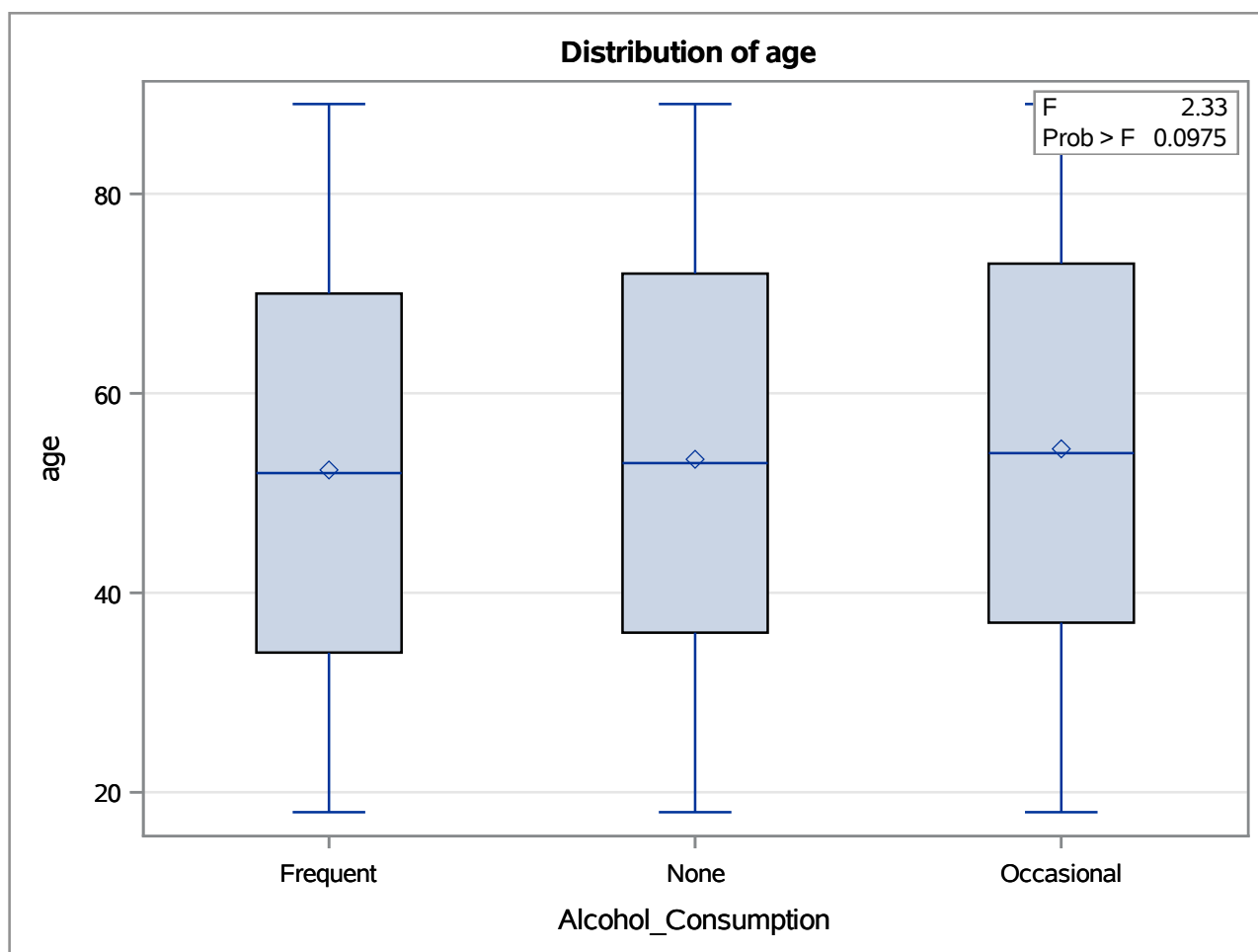
The ANOVA Procedure

Dependent Variable: age

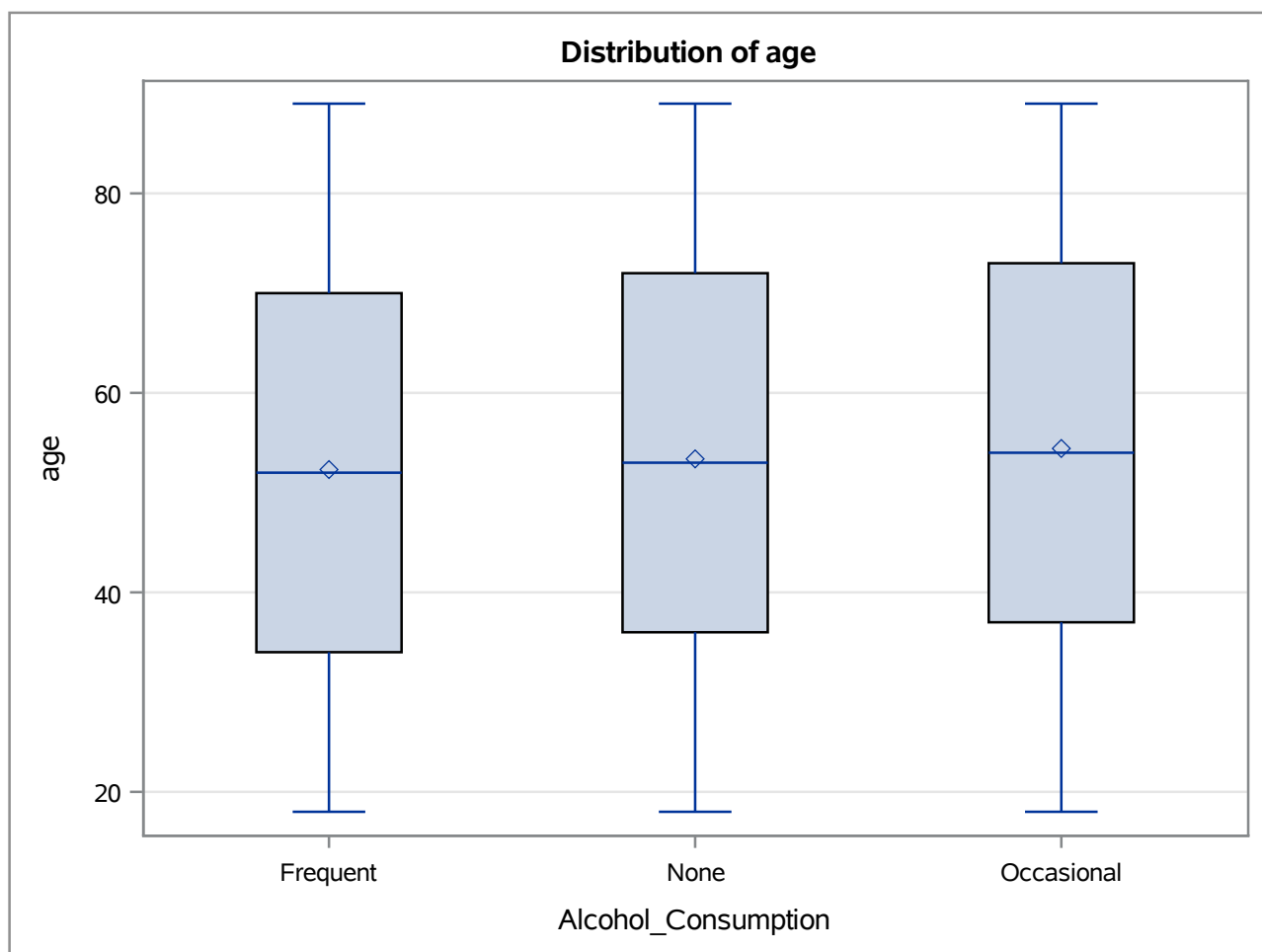
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1969.776	984.888	2.33	0.0975
Error	2997	1266943.607	422.737		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.001552	38.44128	20.56058	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Alcohol_Consumption	2	1969.776422	984.888211	2.33	0.0975



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2997
Error Mean Square	422.7373
Critical Value of Studentized Range	3.31614

Comparisons significant at the 0.05 level are indicated by ***.				
Alcohol_Consumption Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Occasional - None	1.0445	-0.9888	3.0778	
Occasional - Frequent	2.1140	-0.1950	4.4230	
None - Occasional	-1.0445	-3.0778	0.9888	
None - Frequent	1.0695	-1.1817	3.3207	
Frequent - Occasional	-2.1140	-4.4230	0.1950	
Frequent - None	-1.0695	-3.3207	1.1817	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Diet	4	Balanced High-fat Low-carb Vegetarian

Number of Observations Read	3000
Number of Observations Used	3000

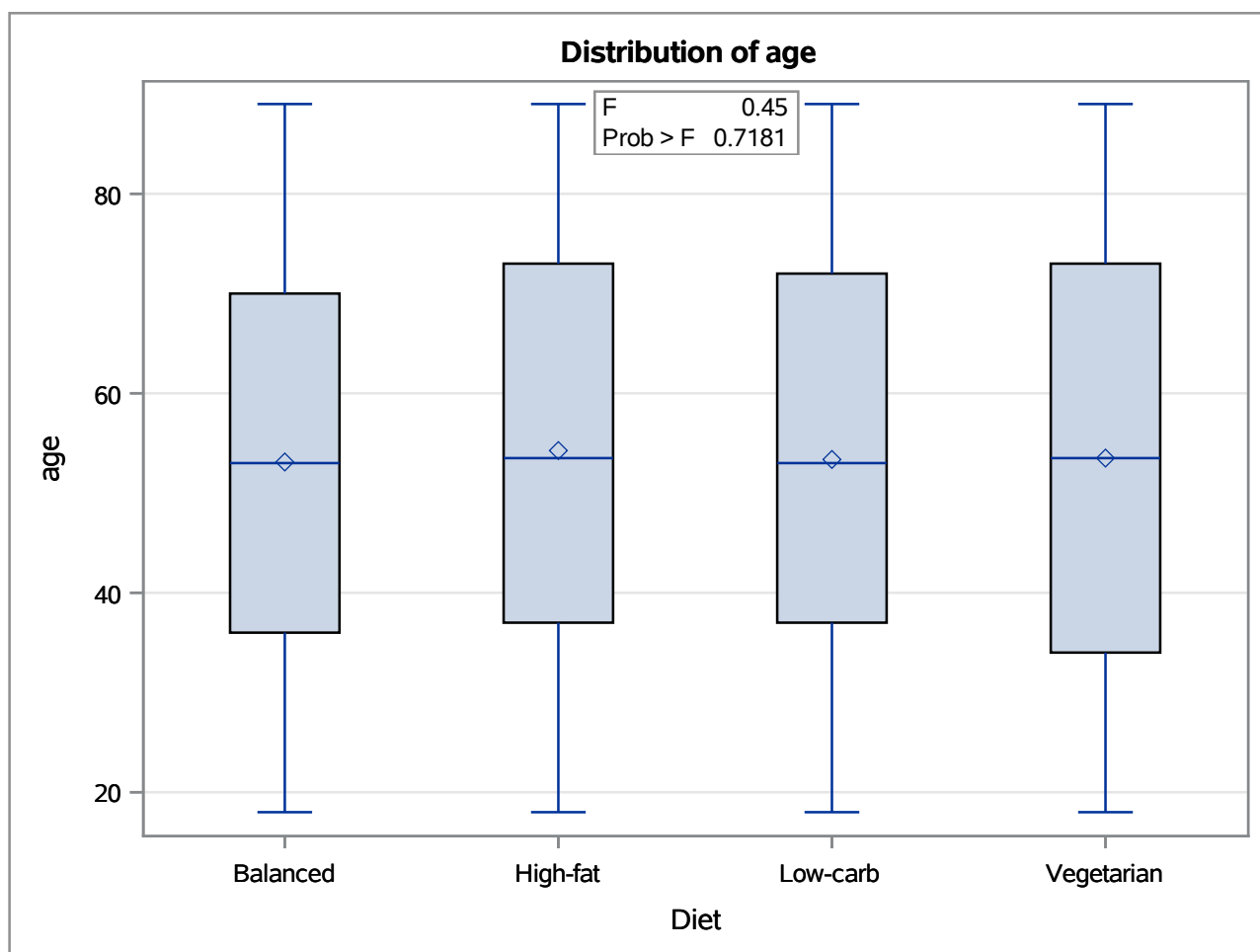
The ANOVA Procedure

Dependent Variable: age

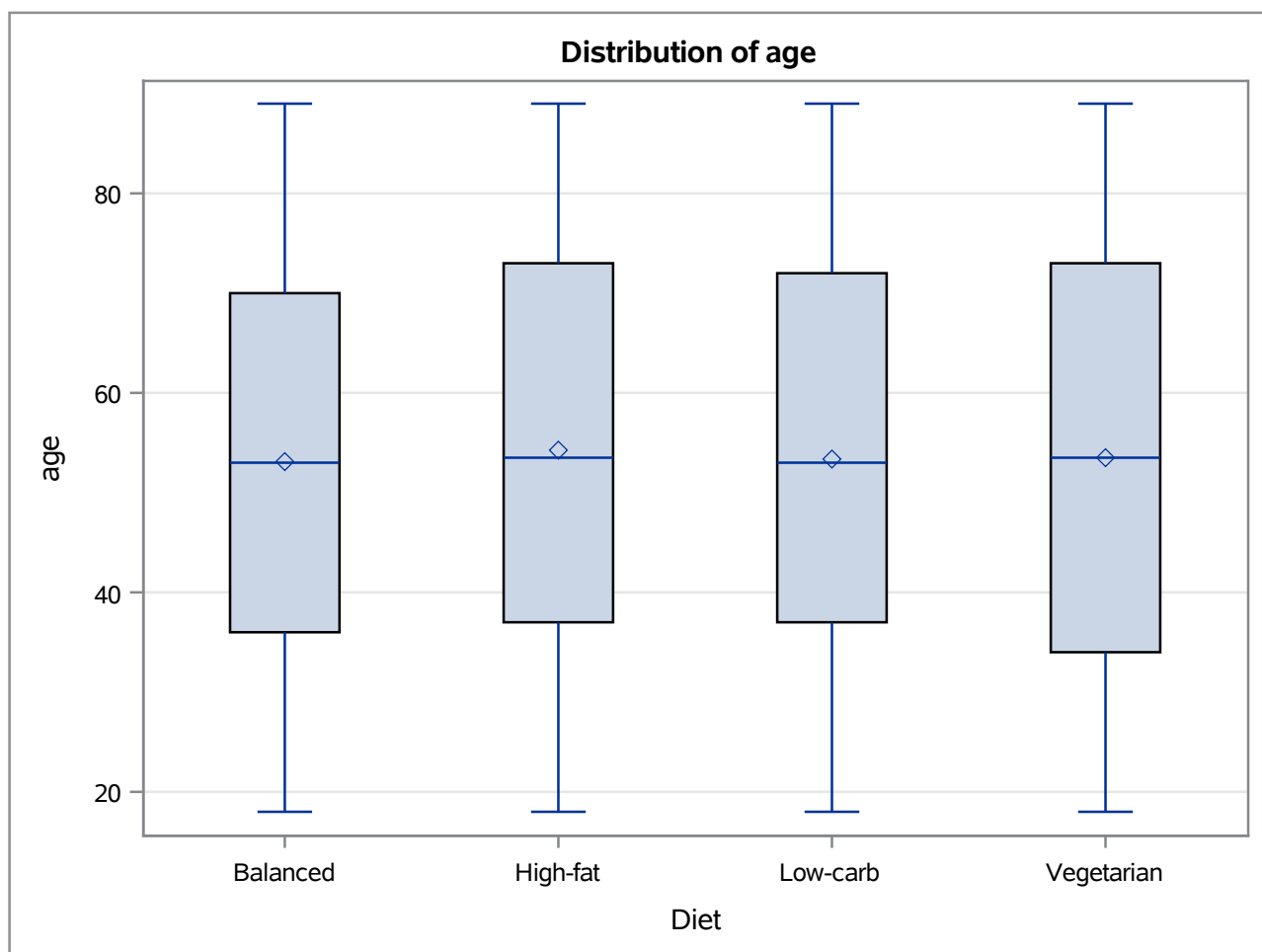
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	570.101	190.034	0.45	0.7181
Error	2996	1268343.282	423.346		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000449	38.46893	20.57536	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Diet	3	570.1011684	190.0337228	0.45	0.7181



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2996
Error Mean Square	423.3456
Critical Value of Studentized Range	3.63517

Comparisons significant at the 0.05 level are indicated by ***.				
Diet Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
High-fat - Vegetarian	0.7550	-2.2964	3.8064	
High-fat - Low-carb	0.8948	-2.0799	3.8695	
High-fat - Balanced	1.1469	-1.4201	3.7140	
Vegetarian - High-fat	-0.7550	-3.8064	2.2964	
Vegetarian - Low-carb	0.1398	-2.9761	3.2558	
Vegetarian - Balanced	0.3919	-2.3376	3.1214	
Low-carb - High-fat	-0.8948	-3.8695	2.0799	
Low-carb - Vegetarian	-0.1398	-3.2558	2.9761	
Low-carb - Balanced	0.2521	-2.3914	2.8955	
Balanced - High-fat	-1.1469	-3.7140	1.4201	
Balanced - Vegetarian	-0.3919	-3.1214	2.3376	
Balanced - Low-carb	-0.2521	-2.8955	2.3914	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Chronic_Diseases	4	Diabetes Heart Disease Hypertension None

Number of Observations Read	3000
Number of Observations Used	3000

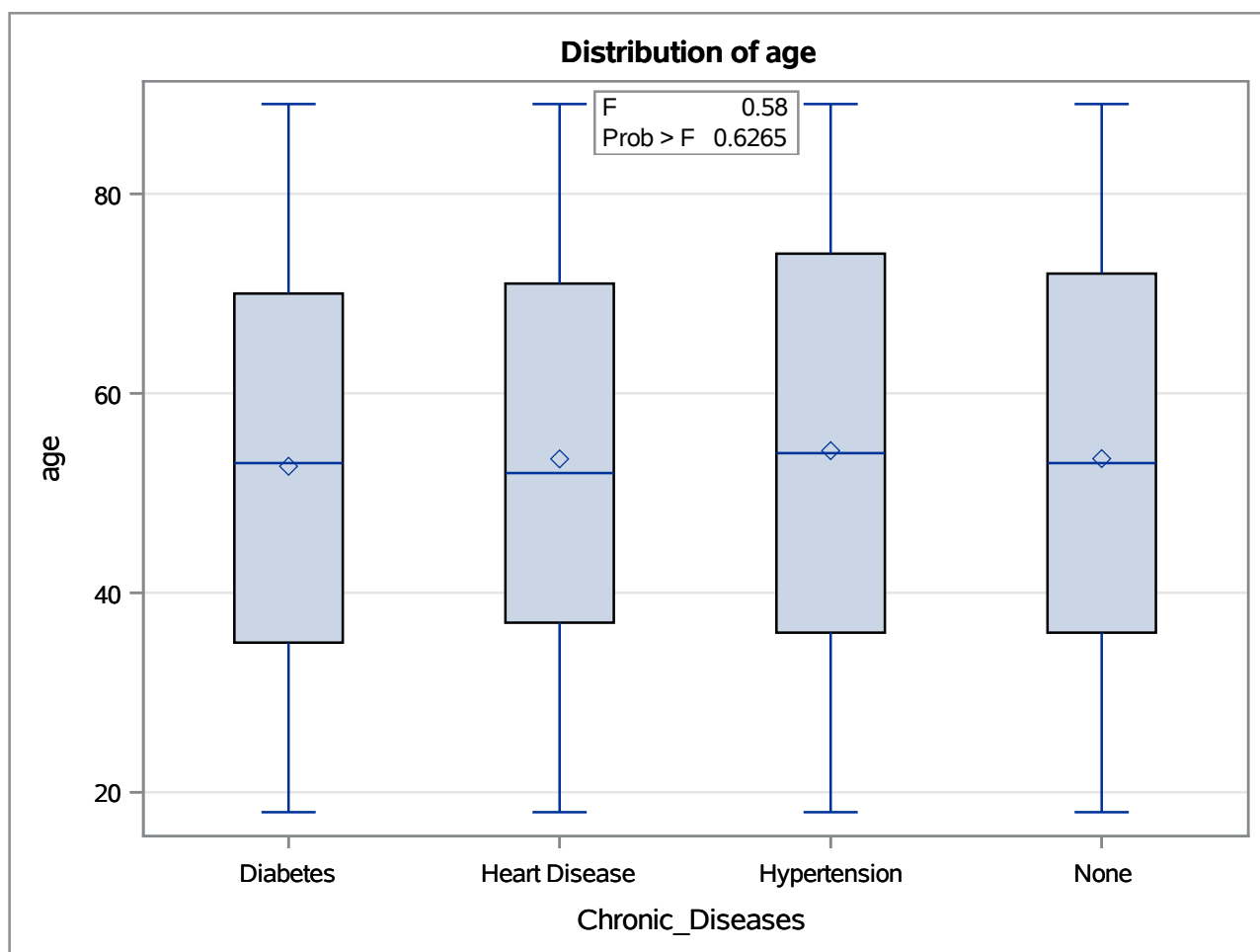
The ANOVA Procedure

Dependent Variable: age

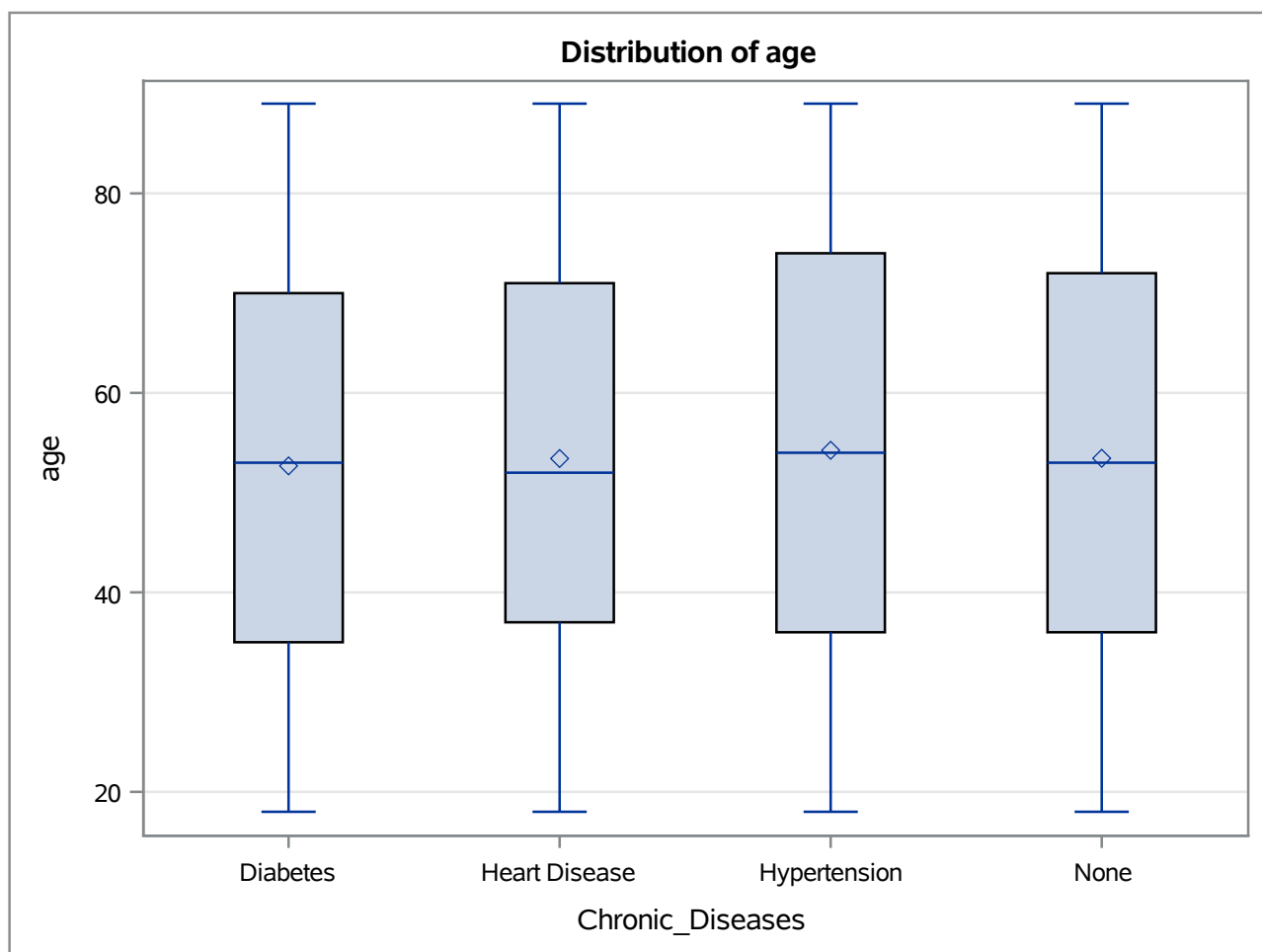
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	739.571	246.524	0.58	0.6265
Error	2996	1268173.813	423.289		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000583	38.46636	20.57399	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Chronic_Diseases	3	739.5706232	246.5235411	0.58	0.6265



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2996
Error Mean Square	423.289
Critical Value of Studentized Range	3.63517

Comparisons significant at the 0.05 level are indicated by ***.				
Chronic_Diseases Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Hypertension - None	0.8006	-1.7074	3.3086	
Hypertension - Heart Disease	0.8257	-2.3064	3.9578	
Hypertension - Diabetes	1.5651	-1.4999	4.6301	
None - Hypertension	-0.8006	-3.3086	1.7074	
None - Heart Disease	0.0251	-2.7724	2.8226	
None - Diabetes	0.7645	-1.9576	3.4867	
Heart Disease - Hypertension	-0.8257	-3.9578	2.3064	
Heart Disease - None	-0.0251	-2.8226	2.7724	
Heart Disease - Diabetes	0.7394	-2.5666	4.0455	
Diabetes - Hypertension	-1.5651	-4.6301	1.4999	
Diabetes - None	-0.7645	-3.4867	1.9576	
Diabetes - Heart Disease	-0.7394	-4.0455	2.5666	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Medication_Use	3	None Occasional Regular

Number of Observations Read	3000
Number of Observations Used	3000

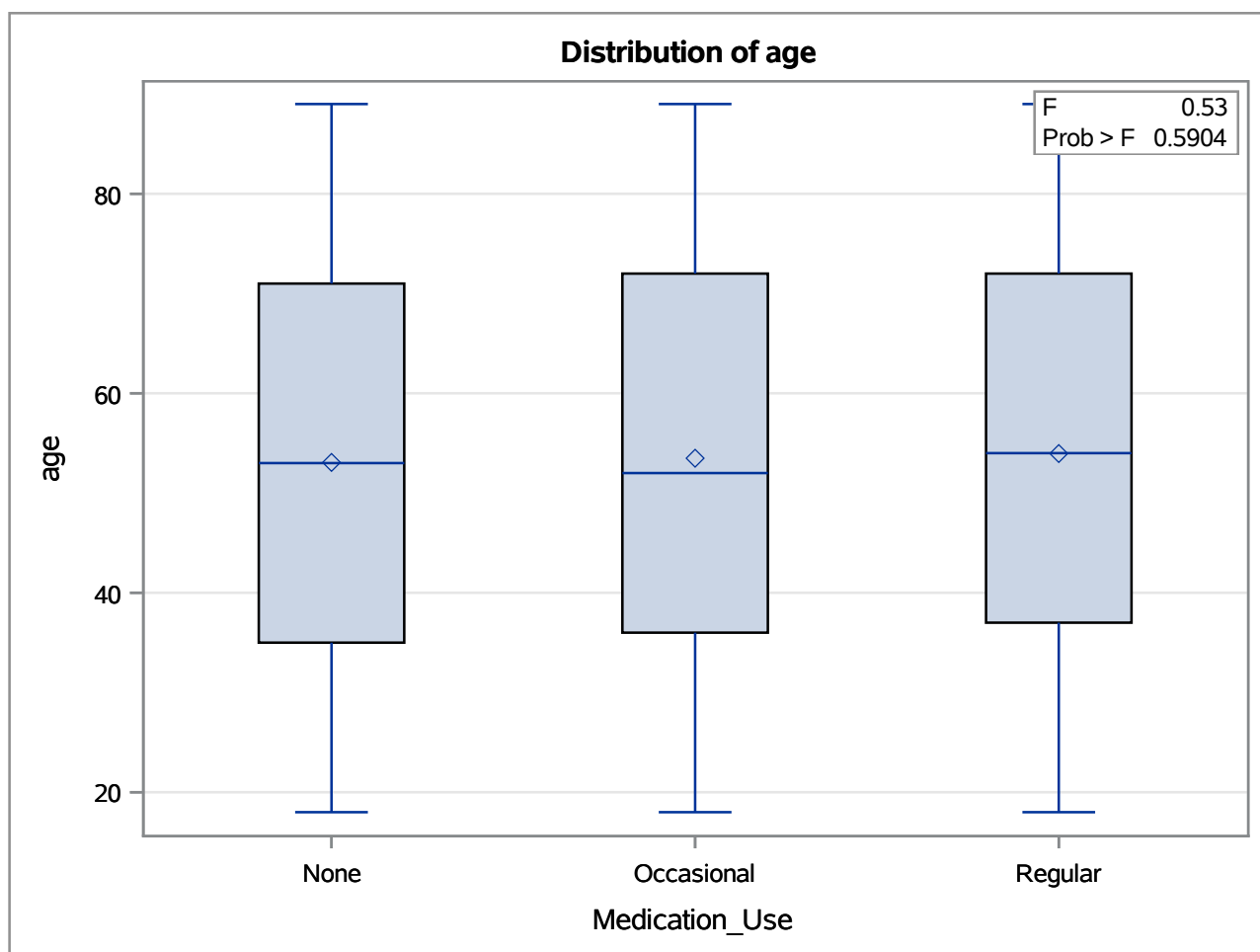
The ANOVA Procedure

Dependent Variable: age

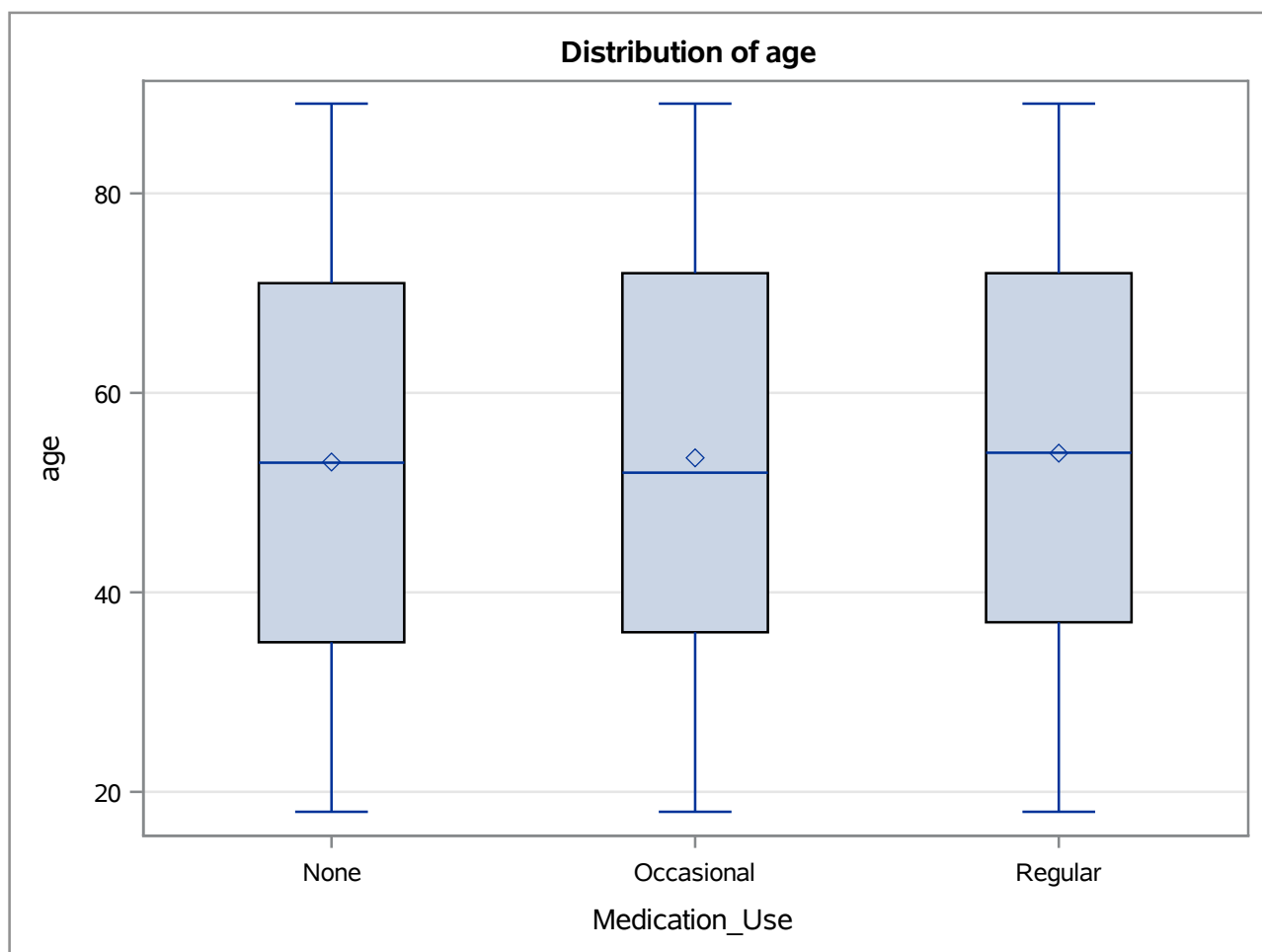
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	446.089	223.044	0.53	0.5904
Error	2997	1268467.295	423.246		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000352	38.46439	20.57294	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Medication_Use	2	446.0886209	223.0443104	0.53	0.5904



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2997
Error Mean Square	423.2457
Critical Value of Studentized Range	3.31614

Comparisons significant at the 0.05 level are indicated by ***.

Medication_Use Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Regular - Occasional	0.4696	-1.8409	2.7801	
Regular - None	0.8899	-1.1427	2.9226	
Occasional - Regular	-0.4696	-2.7801	1.8409	
Occasional - None	0.4204	-1.8361	2.6768	
None - Regular	-0.8899	-2.9226	1.1427	
None - Occasional	-0.4204	-2.6768	1.8361	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Family_History	4	Diabetes Heart Disease Hypertension None

Number of Observations Read	3000
Number of Observations Used	3000

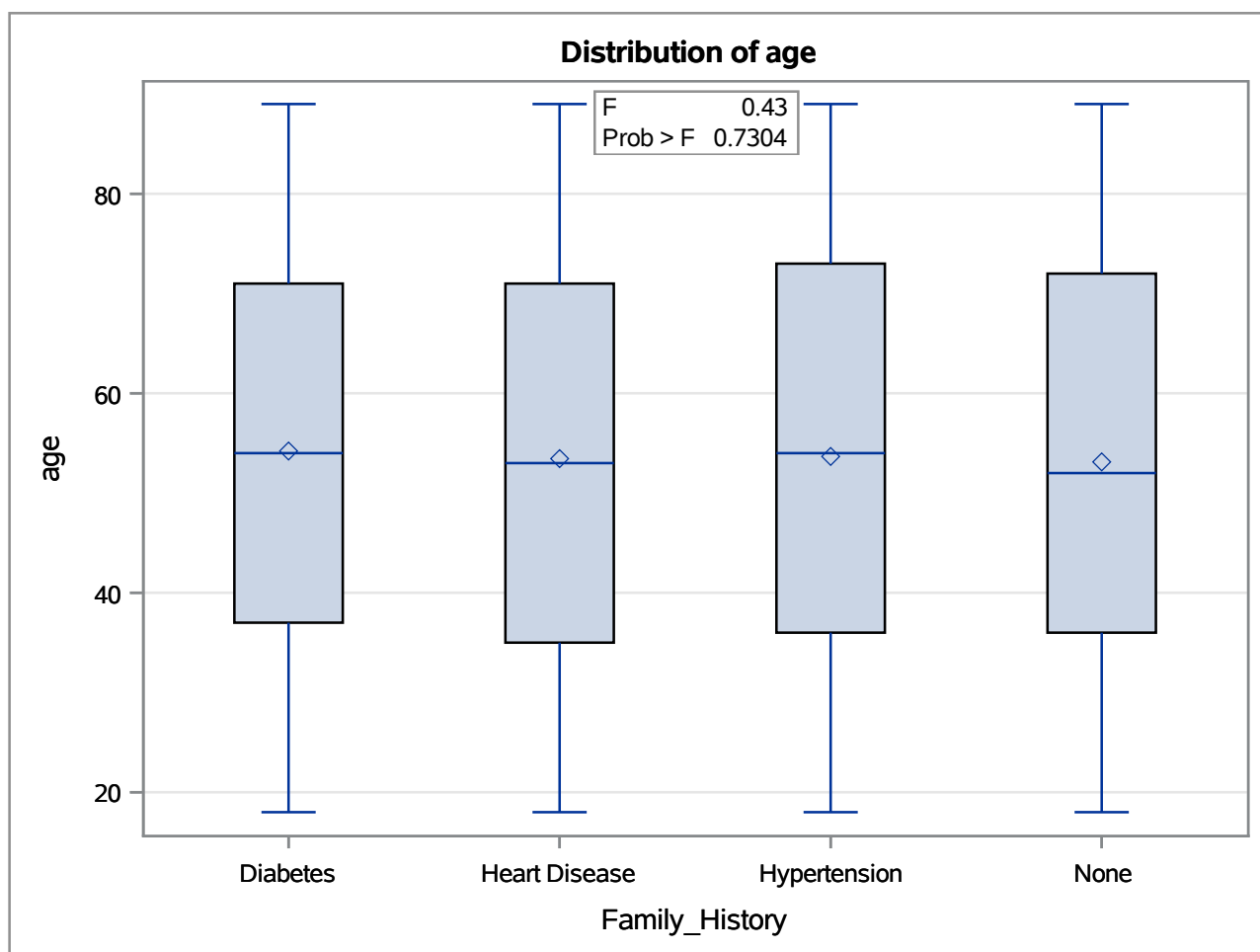
The ANOVA Procedure

Dependent Variable: age

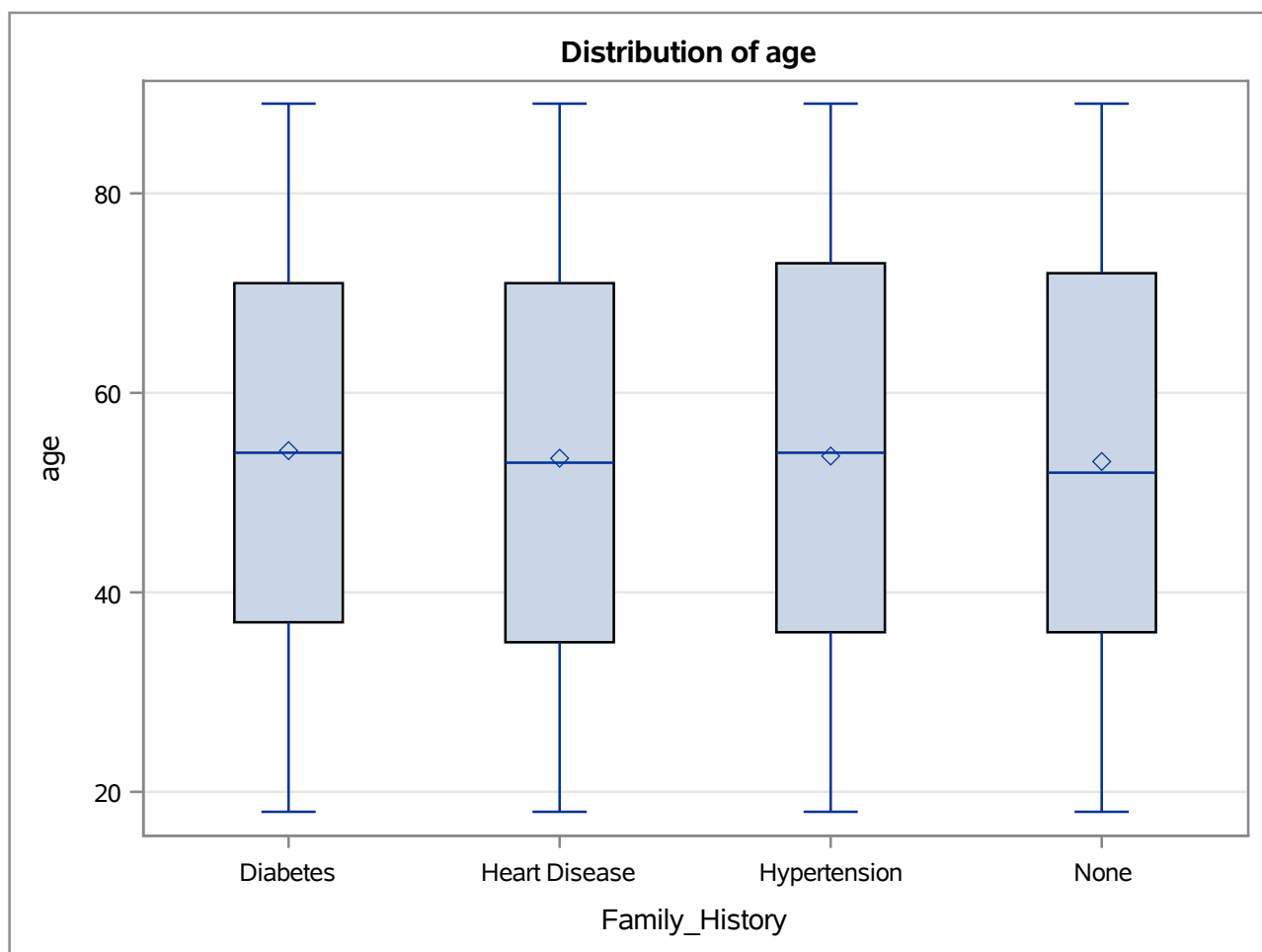
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	548.124	182.708	0.43	0.7304
Error	2996	1268365.259	423.353		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000432	38.46926	20.57554	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Family_History	3	548.1241753	182.7080584	0.43	0.7304



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The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2996
Error Mean Square	423.3529
Critical Value of Studentized Range	3.63517

Comparisons significant at the 0.05 level are indicated by ***.				
Family_History Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Diabetes - Hypertension	0.5419	-2.7045	3.7883	
Diabetes - Heart Disease	0.7612	-2.4810	4.0033	
Diabetes - None	1.0901	-1.4128	3.5930	
Hypertension - Diabetes	-0.5419	-3.7883	2.7045	
Hypertension - Heart Disease	0.2193	-3.2988	3.7374	
Hypertension - None	0.5482	-2.3031	3.3995	
Heart Disease - Diabetes	-0.7612	-4.0033	2.4810	
Heart Disease - Hypertension	-0.2193	-3.7374	3.2988	
Heart Disease - None	0.3289	-2.5176	3.1754	
None - Diabetes	-1.0901	-3.5930	1.4128	
None - Hypertension	-0.5482	-3.3995	2.3031	
None - Heart Disease	-0.3289	-3.1754	2.5176	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Mental_Health_Status	4	Exce Fair Good Poor

Number of Observations Read	3000
Number of Observations Used	3000

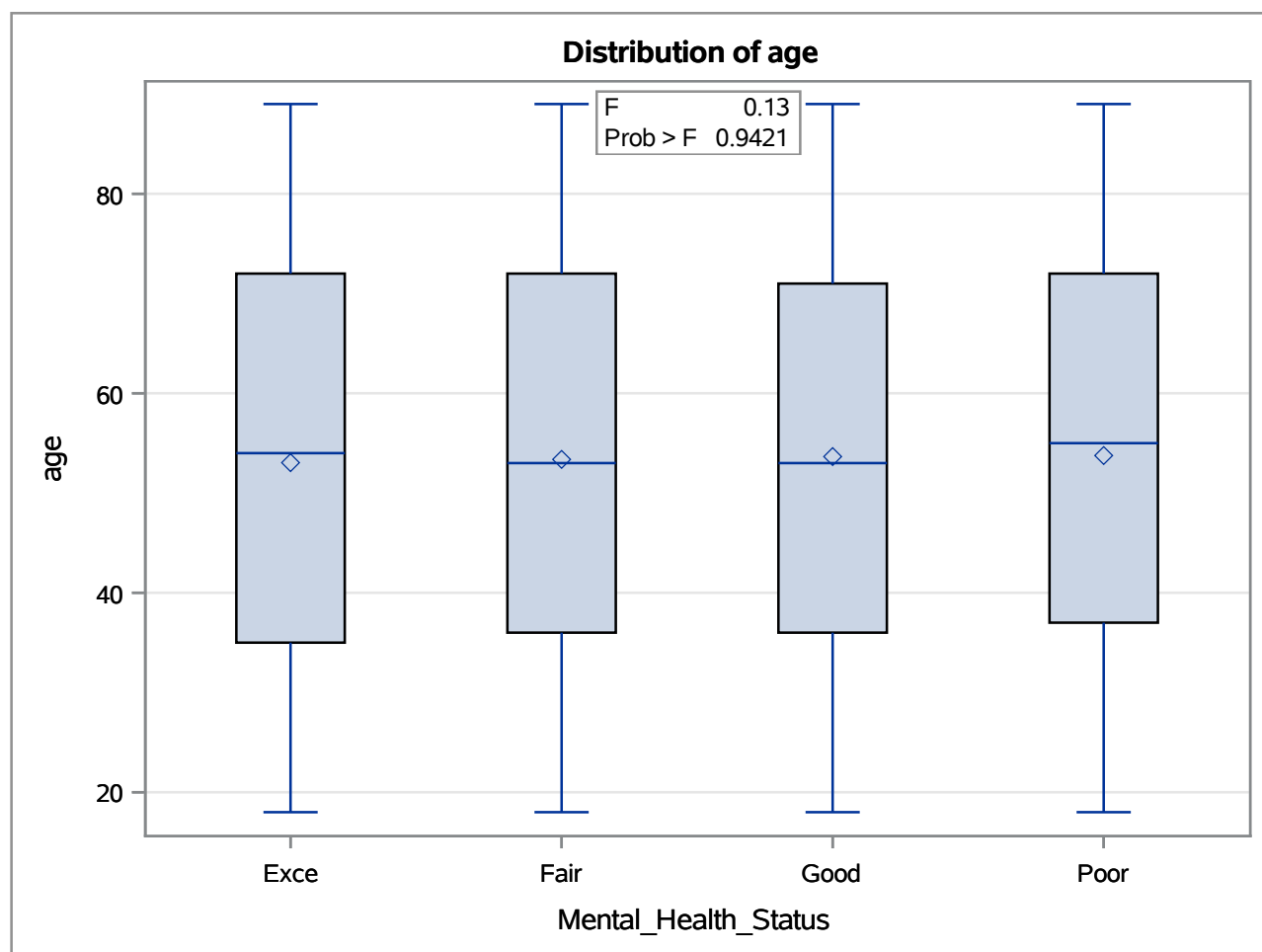
The ANOVA Procedure

Dependent Variable: age

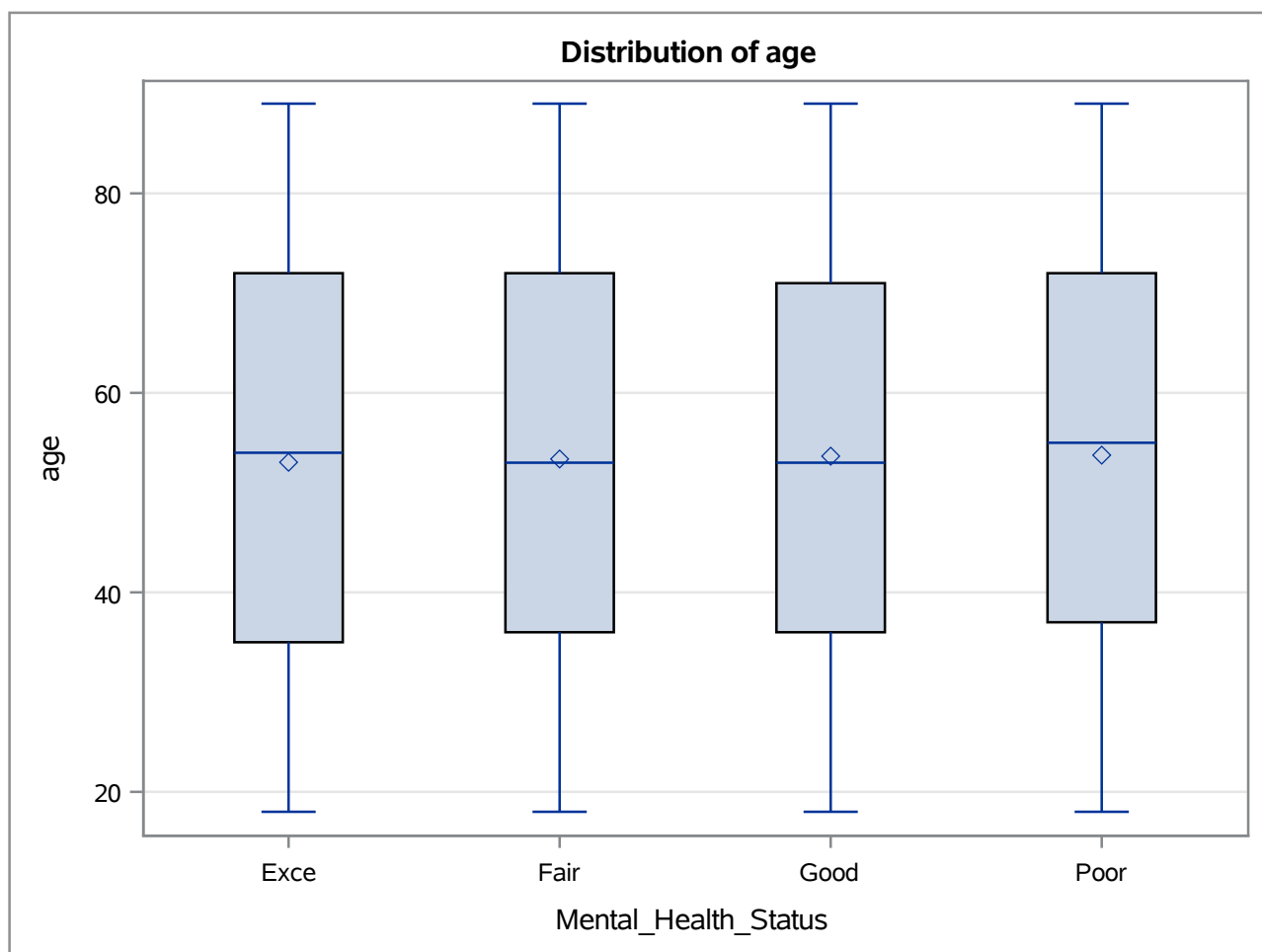
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	165.463	55.154	0.13	0.9421
Error	2996	1268747.921	423.481		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000130	38.47506	20.57864	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Mental_Health_Status	3	165.4626501	55.1542167	0.13	0.9421



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2996
Error Mean Square	423.4806
Critical Value of Studentized Range	3.63517

Comparisons significant at the 0.05 level are indicated by ***.				
Mental_Health_Status Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Poor - Good	0.1036	-2.8031	3.0103	
Poor - Fair	0.3882	-2.5469	3.3232	
Poor - Exce	0.7145	-2.7805	4.2096	
Good - Poor	-0.1036	-3.0103	2.8031	
Good - Fair	0.2846	-2.0351	2.6042	
Good - Exce	0.6110	-2.3859	3.6078	
Fair - Poor	-0.3882	-3.3232	2.5469	
Fair - Good	-0.2846	-2.6042	2.0351	
Fair - Exce	0.3264	-2.6980	3.3507	
Exce - Poor	-0.7145	-4.2096	2.7805	
Exce - Good	-0.6110	-3.6078	2.3859	
Exce - Fair	-0.3264	-3.3507	2.6980	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Education_Level	4	High School None Postgraduate Undergraduate

Number of Observations Read	3000
Number of Observations Used	3000

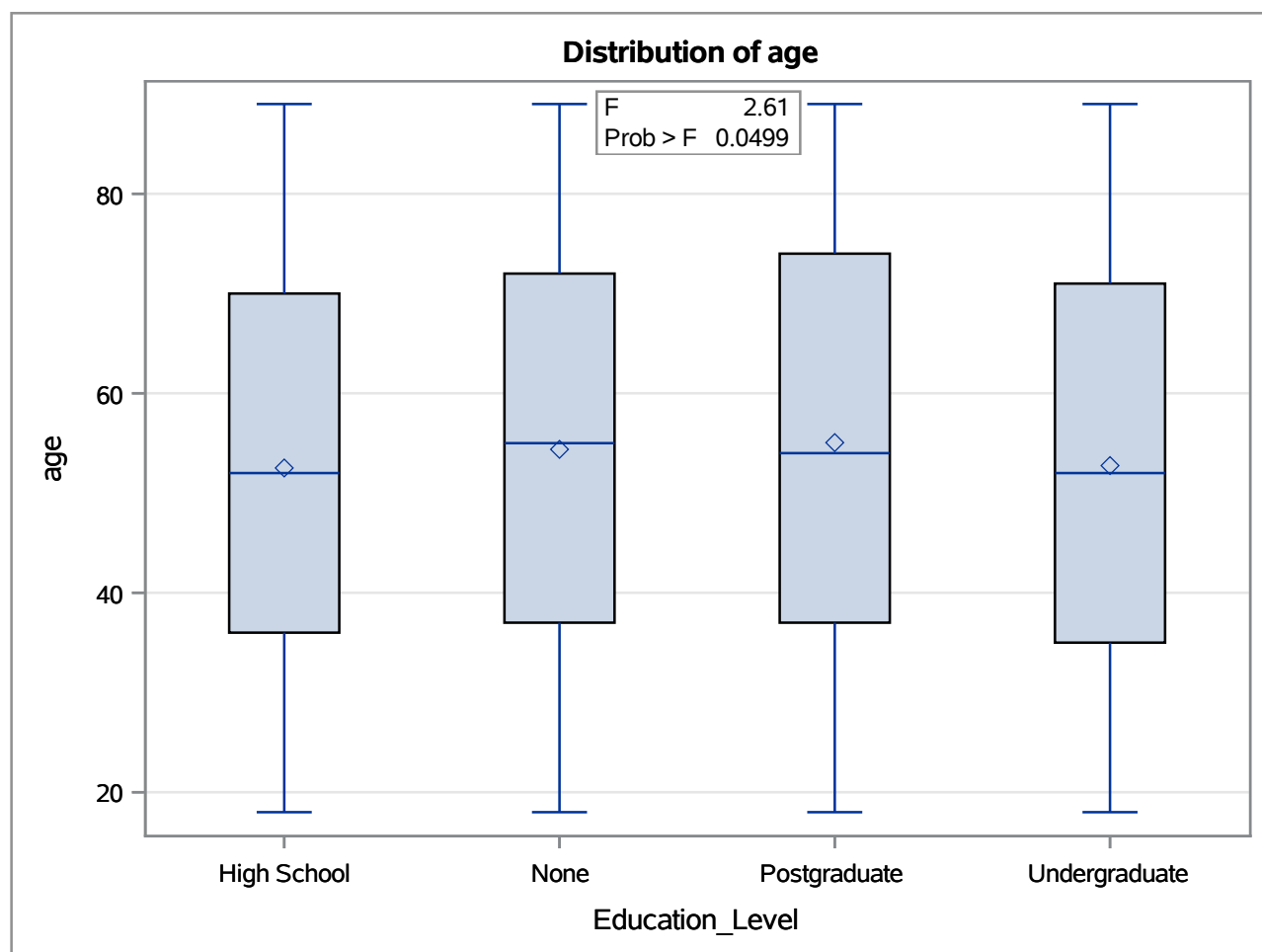
The ANOVA Procedure

Dependent Variable: age

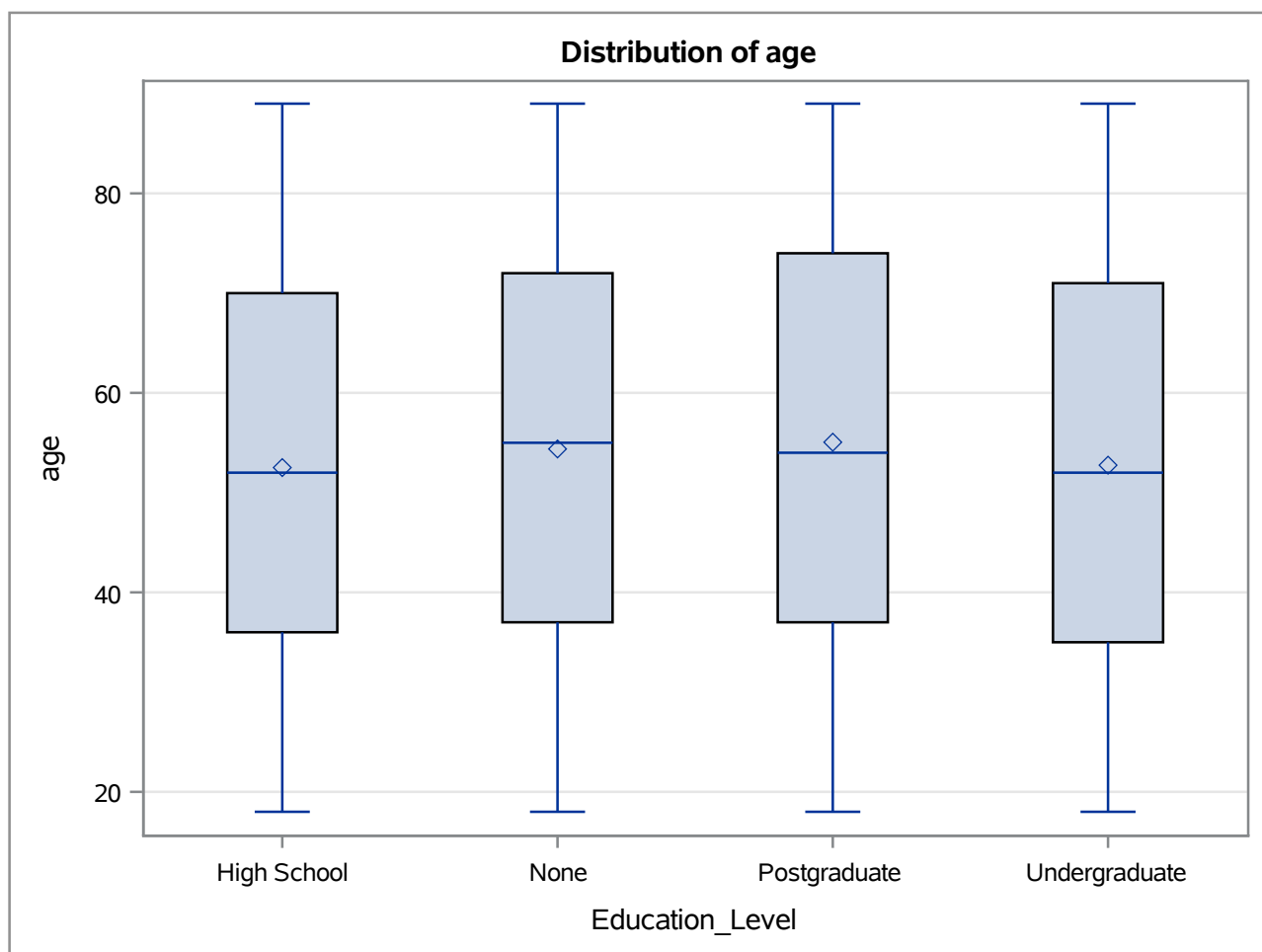
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3306.868	1102.289	2.61	0.0499
Error	2996	1265606.516	422.432		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.002606	38.42740	20.55315	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Education_Level	3	3306.867768	1102.289256	2.61	0.0499



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2996
Error Mean Square	422.4321
Critical Value of Studentized Range	3.63517

Comparisons significant at the 0.05 level are indicated by ***.				
Education_Level Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Postgraduate - None	0.6765	-2.3331	3.6860	
Postgraduate - Undergraduate	2.3033	-0.4829	5.0896	
Postgraduate - High School	2.5437	-0.2432	5.3306	
None - Postgraduate	-0.6765	-3.6860	2.3331	
None - Undergraduate	1.6269	-1.1316	4.3853	
None - High School	1.8672	-0.8918	4.6263	
Undergraduate - Postgraduate	-2.3033	-5.0896	0.4829	
Undergraduate - None	-1.6269	-4.3853	1.1316	
Undergraduate - High School	0.2404	-2.2733	2.7540	
High School - Postgraduate	-2.5437	-5.3306	0.2432	
High School - None	-1.8672	-4.6263	0.8918	
High School - Undergraduate	-0.2404	-2.7540	2.2733	

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Income_Level	3	High Low Medium

Number of Observations Read	3000
Number of Observations Used	3000

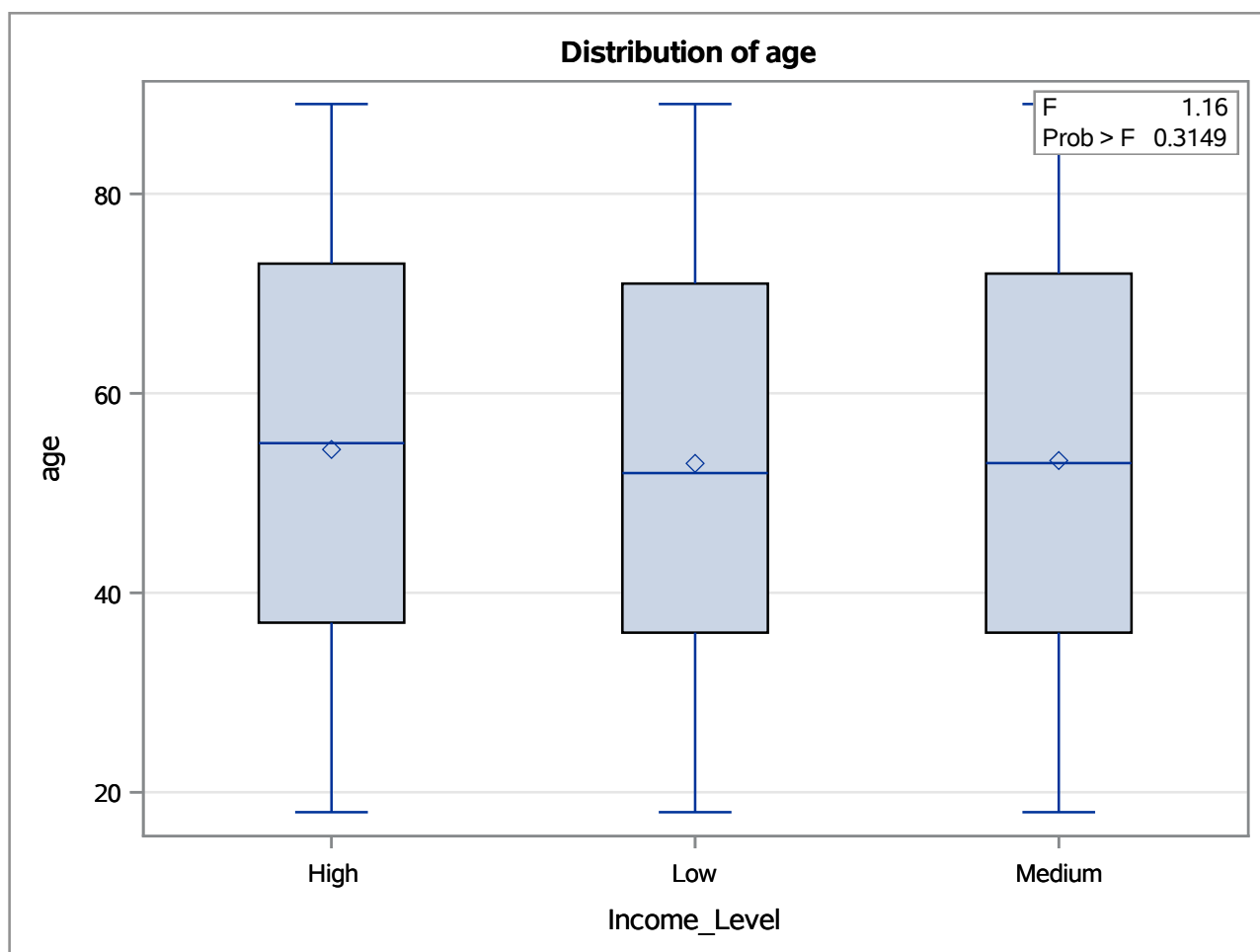
The ANOVA Procedure

Dependent Variable: age

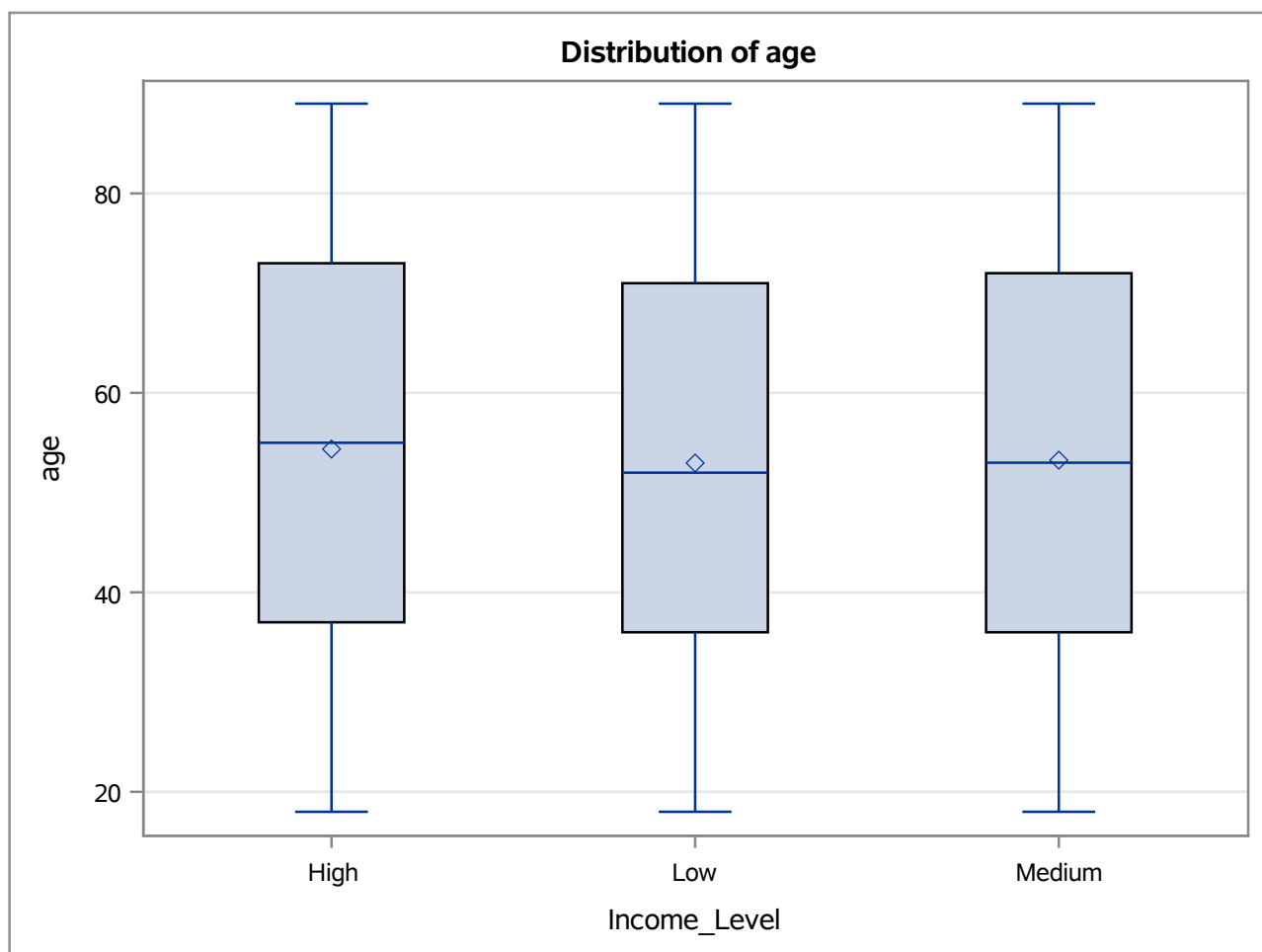
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	978.123	489.061	1.16	0.3149
Error	2997	1267935.261	423.068		
Corrected Total	2999	1268913.384			

R-Square	Coeff Var	Root MSE	age Mean
0.000771	38.45632	20.56862	53.48567

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Income_Level	2	978.1229604	489.0614802	1.16	0.3149



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for age

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	2997
Error Mean Square	423.0682
Critical Value of Studentized Range	3.31614

Comparisons significant at the 0.05 level are indicated by ***.				
Income_Level Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
High - Medium	1.1124	-1.0333	3.2580	
High - Low	1.3975	-0.8919	3.6869	
Medium - High	-1.1124	-3.2580	1.0333	
Medium - Low	0.2851	-1.8224	2.3926	
Low - High	-1.3975	-3.6869	0.8919	
Low - Medium	-0.2851	-2.3926	1.8224	