Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The UNIVARIATE Procedure
Variable: AGE
ARM = DrugA

Moments			
N	104	Sum Weights	104
Mean	49.75	Sum Observations	5174
Std Deviation	11.4482796	Variance	131.063107
Skewness	-0.3118724	Kurtosis	0.09609126
Uncorrected SS	270906	Corrected SS	13499.5
Coeff Variation	23.0116174	Std Error Mean	1.12259618

Basic Statistical Measures			
Location		Variability	
Mean	49.75000	Std Deviation	11.44828
Median	50.00000	Variance	131.06311
Mode	47.00000	Range	57.00000
		Interquartile Range	16.00000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	44.31692	Pr > |t|	<.0001
Sign	M	52	Pr >= |M|	<.0001
Signed Rank	S	2730	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.985267	Pr < W	0.3056
Kolmogorov-Smirnov	D	0.067846	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.055958	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.38195	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	76
99%	73
95%	67
90%	66
75% Q3	58
50% Median	50
25% Q1	42
10%	36

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The UNIVARIATE Procedure
Variable: AGE
ARM = DrugA

Quantiles (Definition 5)	
Level	*Quantile*
5%	32
1%	20
0% Min	19

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
19	117	68	10
20	181	68	46
20	28	68	55
29	30	73	122
30	38	76	97

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The UNIVARIATE Procedure
Variable: AGE
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	53.1869919	Sum Observations	6542
Std Deviation	12.0425132	Variance	145.022124
Skewness	0.01109266	Kurtosis	-0.3944961
Uncorrected SS	365642	Corrected SS	17692.6992
Coeff Variation	22.6418393	Std Error Mean	1.08583685

Basic Statistical Measures			
Location		Variability	
Mean	53.18699	Std Deviation	12.04251
Median	52.00000	Variance	145.02212
Mode	52.00000	Range	58.00000
		Interquartile Range	18.00000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	48.98249	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.991166	Pr < W	0.6246
Kolmogorov-Smirnov	D	0.075844	Pr > D	0.0821
Cramer-von Mises	W-Sq	0.073454	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.398897	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	82
99%	79
95%	73
90%	68
75% Q3	63
50% Median	52
25% Q1	45
10%	39

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The UNIVARIATE Procedure
Variable: AGE
ARM = Placebo

Quantiles (Definition 5)	
Level	*Quantile*
5%	35
1%	26
0% Min	24

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
24	131	75	193
26	113	76	123
27	99	76	198
29	48	79	205
32	130	82	80

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The GLM Procedure

Class Level Information

Class	*Levels*	*Values*
ARM	2	DrugA Placebo

Number of Observations Read	227
Number of Observations Used	227

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The GLM Procedure

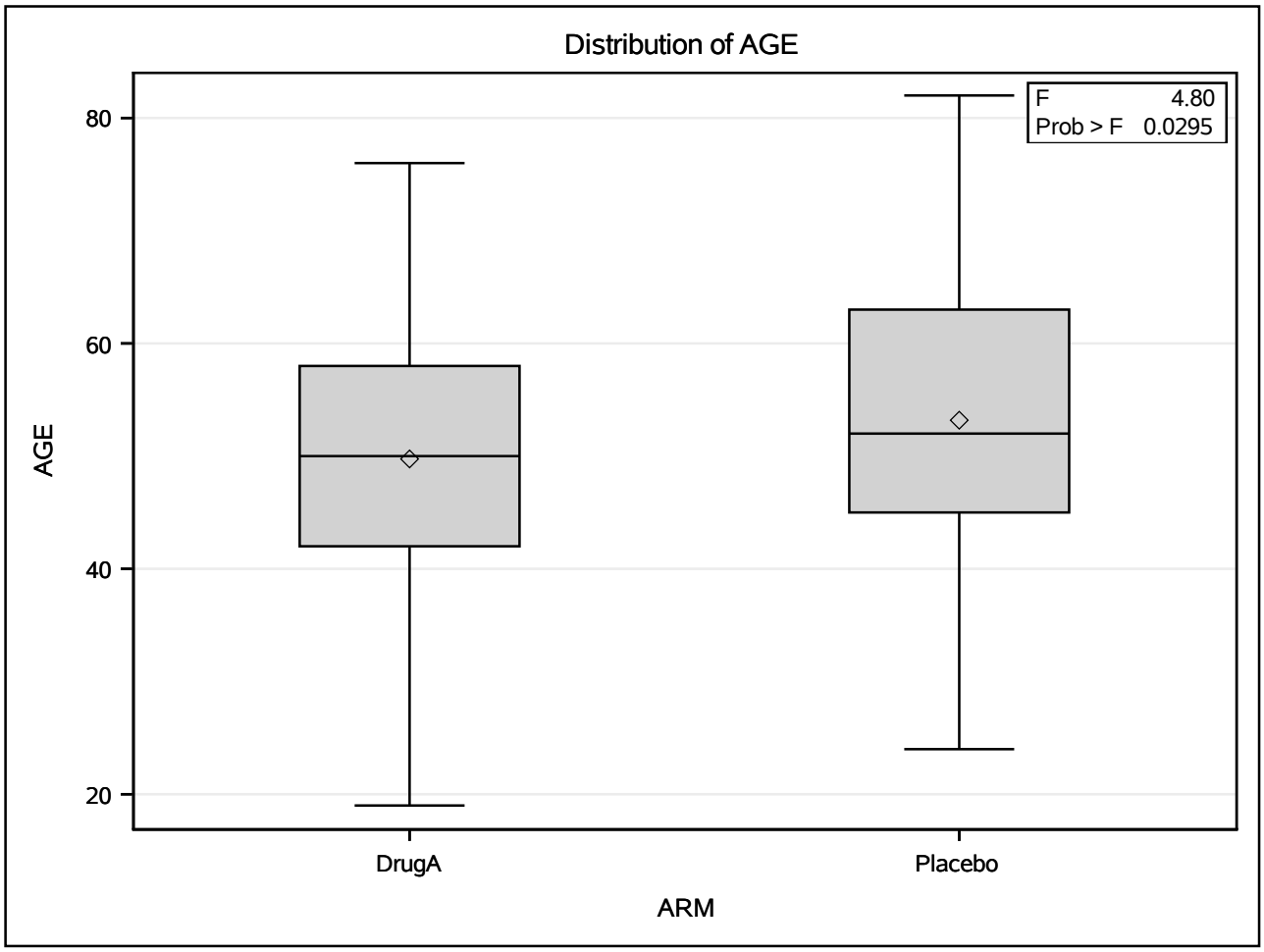
Dependent Variable: AGE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	665.68628	665.68628	4.80	0.0295
Error	225	31192.19919	138.63200		
Corrected Total	226	31857.88546			

R-Square	Coeff Var	Root MSE	AGE Mean
0.020895	22.81278	11.77421	51.61233

Source	DF	Type I SS	Mean Square	F Value	Pr > F
ARM	1	665.6862756	665.6862756	4.80	0.0295

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ARM	1	665.6862756	665.6862756	4.80	0.0295



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The GLM Procedure

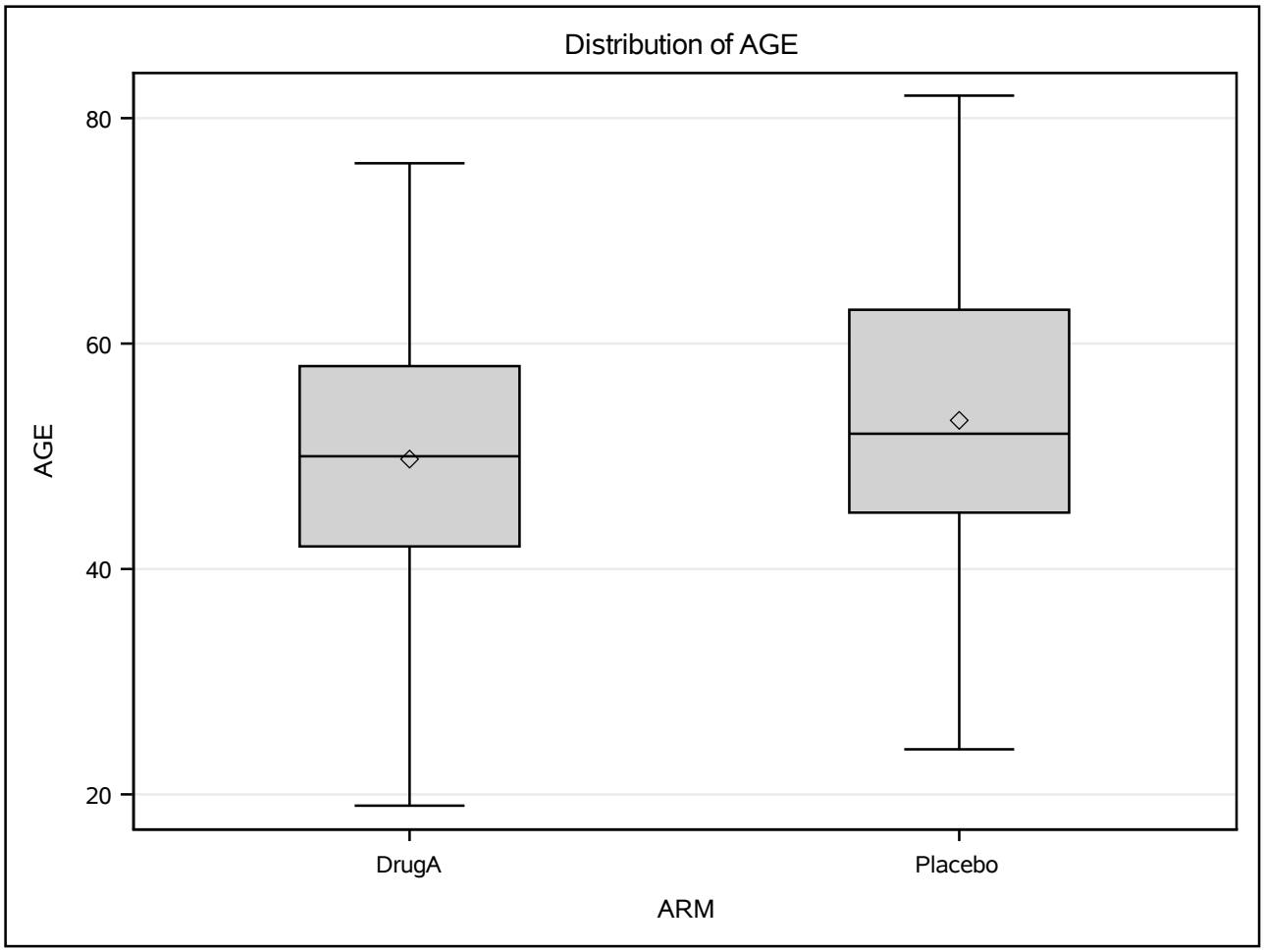
Levene's Test for Homogeneity of AGE Variance
ANOVA of Squared Deviations from Group Means

Source	*DF*	*Sum of Squares*	*Mean Square*	*F Value*	*Pr > F*
ARM	1	11108.6	11108.6	0.33	0.5661
Error	225	7567979	33635.5		

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

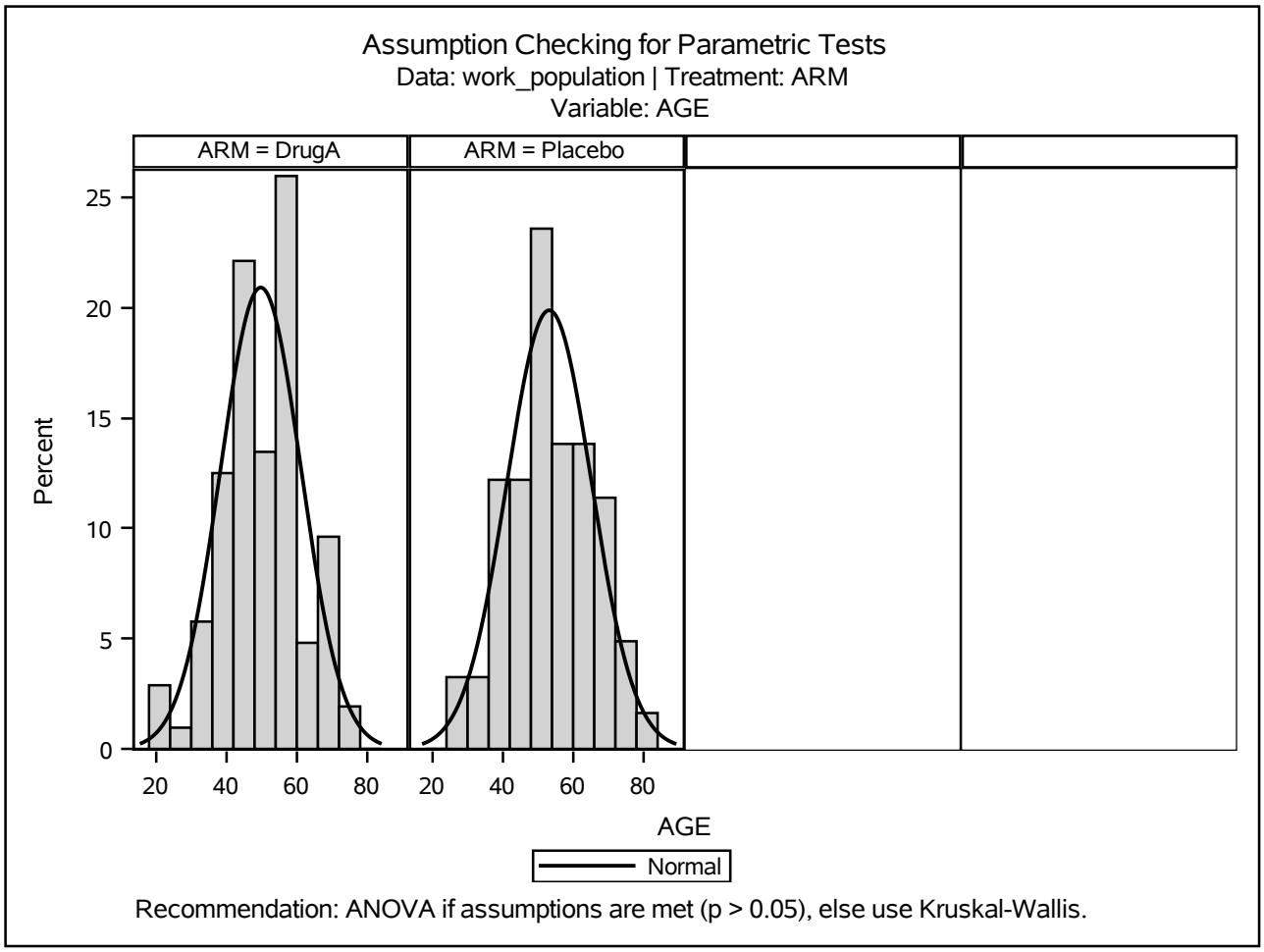
Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE

The GLM Procedure



		AGE	
Level of ARM	*N*	*Mean*	*Std Dev*
DrugA	104	49.7500000	11.4482796
Placebo	123	53.1869919	12.0425132

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.


Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
ARM = DrugA
ARM = Placebo
Percent
0
5
10
15
20
25
20
40
60
80
AGE
Normal
Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
QQ Plots for AGE by ARM

The UNIVARIATE Procedure
Variable: AGE
ARM = DrugA

Moments			
N	104	*Sum Weights*	104
Mean	49.75	*Sum Observations*	5174
Std Deviation	11.4482796	*Variance*	131.063107
Skewness	-0.3118724	*Kurtosis*	0.09609126
Uncorrected SS	270906	*Corrected SS*	13499.5
Coeff Variation	23.0116174	*Std Error Mean*	1.12259618

Basic Statistical Measures			
Location		*Variability*	
Mean	49.75000	*Std Deviation*	11.44828
Median	50.00000	*Variance*	131.06311
Mode	47.00000	*Range*	57.00000
		Interquartile Range	16.00000

Tests for Location: Mu0=0				
Test		*Statistic*	*p Value*	
Student's t	*t*	44.31692	*Pr > |t|*	<.0001
Sign	*M*	52	*Pr >= |M|*	<.0001
Signed Rank	*S*	2730	*Pr >= |S|*	<.0001

Quantiles (Definition 5)	
Level	*Quantile*
100% Max	76
99%	73
95%	67
90%	66
75% Q3	58
50% Median	50
25% Q1	42
10%	36
5%	32
1%	20
0% Min	19

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
QQ Plots for AGE by ARM

The UNIVARIATE Procedure
Variable: AGE
ARM = DrugA

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
19	117	68	10
20	181	68	46
20	28	68	55
29	30	73	122
30	38	76	97

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
QQ Plots for AGE by ARM

The UNIVARIATE Procedure
Variable: AGE
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	53.1869919	Sum Observations	6542
Std Deviation	12.0425132	Variance	145.022124
Skewness	0.01109266	Kurtosis	-0.3944961
Uncorrected SS	365642	Corrected SS	17692.6992
Coeff Variation	22.6418393	Std Error Mean	1.08583685

Basic Statistical Measures			
Location		Variability	
Mean	53.18699	Std Deviation	12.04251
Median	52.00000	Variance	145.02212
Mode	52.00000	Range	58.00000
		Interquartile Range	18.00000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	48.98249	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	82
99%	79
95%	73
90%	68
75% Q3	63
50% Median	52
25% Q1	45
10%	39
5%	35
1%	26
0% Min	24

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
QQ Plots for AGE by ARM

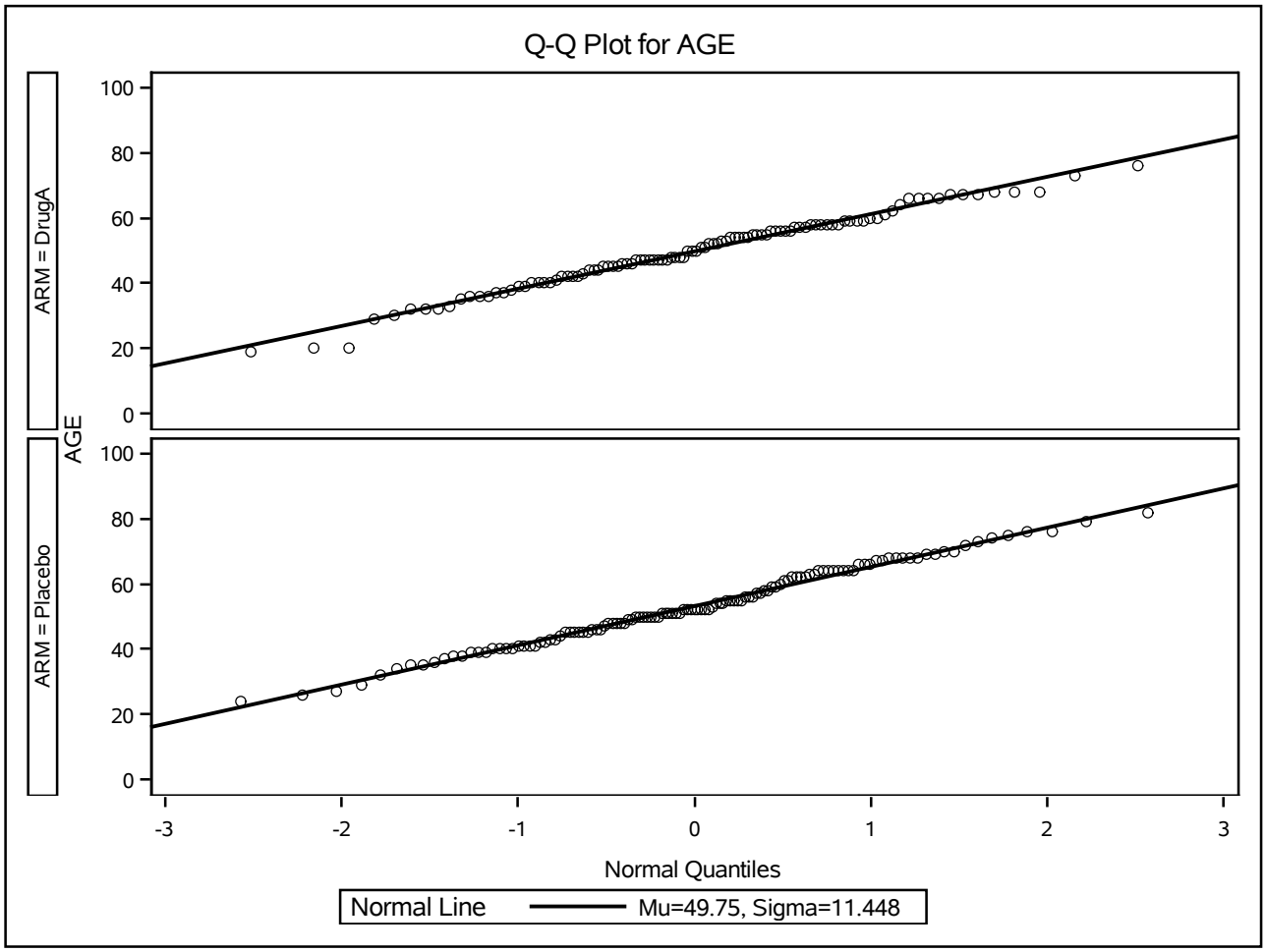
The UNIVARIATE Procedure
Variable: AGE
ARM = Placebo

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
24	131	75	193
26	113	76	123
27	99	76	198
29	48	79	205
32	130	82	80

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: AGE
QQ Plots for AGE by ARM

The UNIVARIATE Procedure



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = DrugA

Moments			
N	104	Sum Weights	104
Mean	170.902885	Sum Observations	17773.9
Std Deviation	10.771136	Variance	116.01737
Skewness	0.00930147	Kurtosis	-0.3280185
Uncorrected SS	3049560.57	Corrected SS	11949.7891
Coeff Variation	6.30248928	Std Error Mean	1.05619678

Basic Statistical Measures			
Location		Variability	
Mean	170.9029	Std Deviation	10.77114
Median	171.4500	Variance	116.01737
Mode	147.7000	Range	49.90000
		Interquartile Range	14.60000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	161.8097	Pr > |t|	<.0001
Sign	M	52	Pr >= |M|	<.0001
Signed Rank	S	2730	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.992139	Pr < W	0.8128
Kolmogorov-Smirnov	D	0.03567	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.021823	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.162741	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	197.60
99%	195.90
95%	186.90
90%	185.10
75% Q3	177.90
50% Median	171.45
25% Q1	163.30
10%	156.60

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = DrugA

Quantiles (Definition 5)	
Level	*Quantile*
5%	154.50
1%	147.70
0% Min	147.70

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
147.7	129	189.5	140
147.7	98	190.1	65
148.3	201	190.1	209
148.6	112	195.9	74
153.6	176	197.6	28

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	169.82439	Sum Observations	20888.4
Std Deviation	10.1907169	Variance	103.850712
Skewness	-0.0927848	Kurtosis	-0.0138981
Uncorrected SS	3560029.58	Corrected SS	12669.7868
Coeff Variation	6.00073813	Std Error Mean	0.918866

Basic Statistical Measures			
Location		Variability	
Mean	169.8244	Std Deviation	10.19072
Median	170.1000	Variance	103.85071
Mode	170.1000	Range	49.50000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	184.8195	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.990881	Pr < W	0.5973
Kolmogorov-Smirnov	D	0.037468	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.022392	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.217106	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	191.9
99%	191.3
95%	187.2
90%	185.0
75% Q3	176.3
50% Median	170.1
25% Q1	163.3
10%	157.2

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = Placebo

Quantiles (Definition 5)	
Level	*Quantile*
5%	153.7
1%	145.6
0% Min	142.4

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
142.4	145	187.9	189
145.6	43	189.7	7
145.8	156	190.3	77
147.0	172	191.3	115
150.8	23	191.9	211

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The GLM Procedure

Class Level Information

Class	*Levels*	*Values*
ARM	2	DrugA Placebo

Number of Observations Read	227
Number of Observations Used	227

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The GLM Procedure

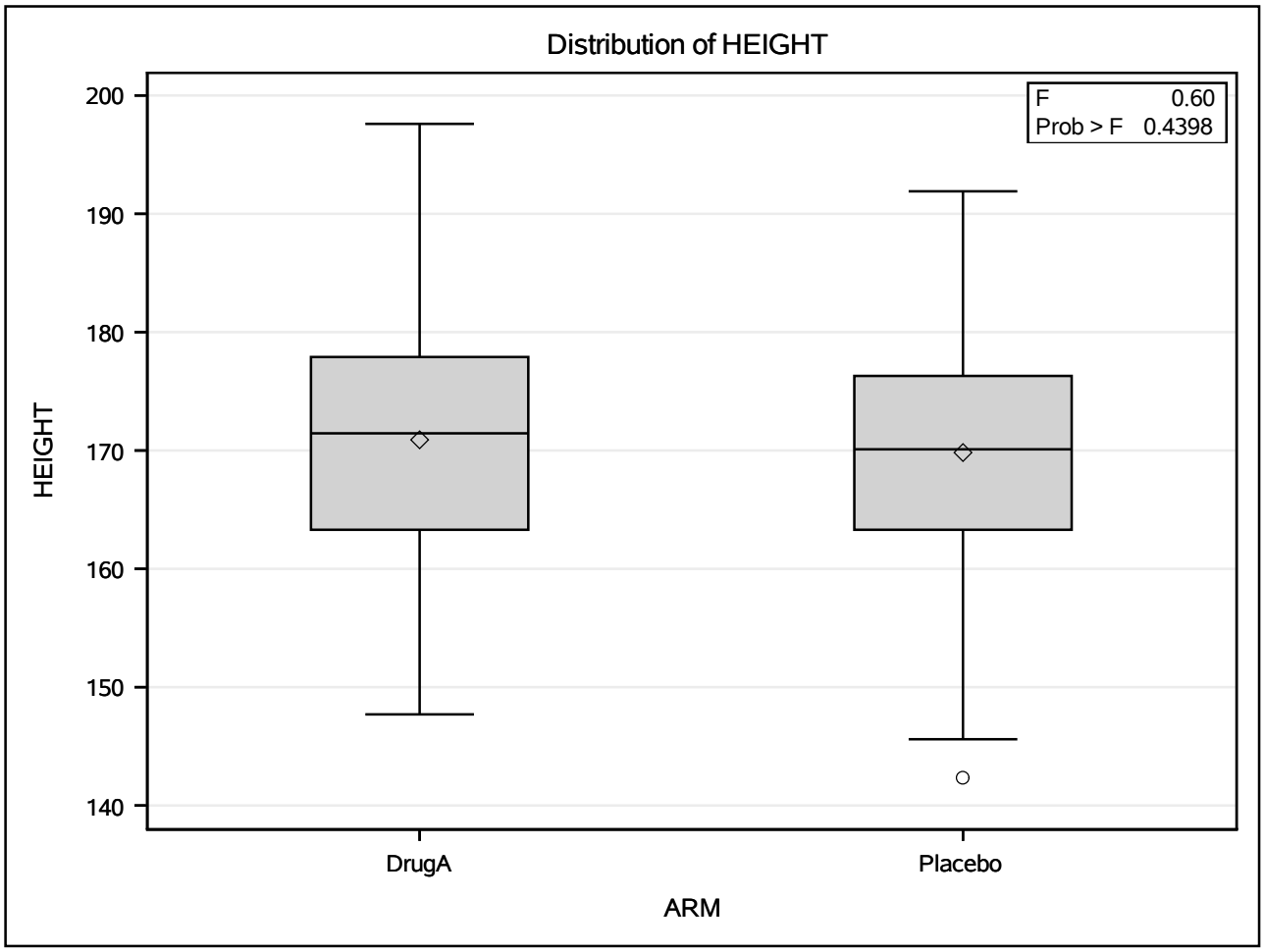
Dependent Variable: HEIGHT

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	65.54633	65.54633	0.60	0.4398
Error	225	24619.57596	109.42034		
Corrected Total	226	24685.12229			

R-Square	Coeff Var	Root MSE	HEIGHT Mean
0.002655	6.141680	10.46042	170.3185

Source	DF	Type I SS	Mean Square	F Value	Pr > F
ARM	1	65.54632687	65.54632687	0.60	0.4398

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ARM	1	65.54632687	65.54632687	0.60	0.4398



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The GLM Procedure

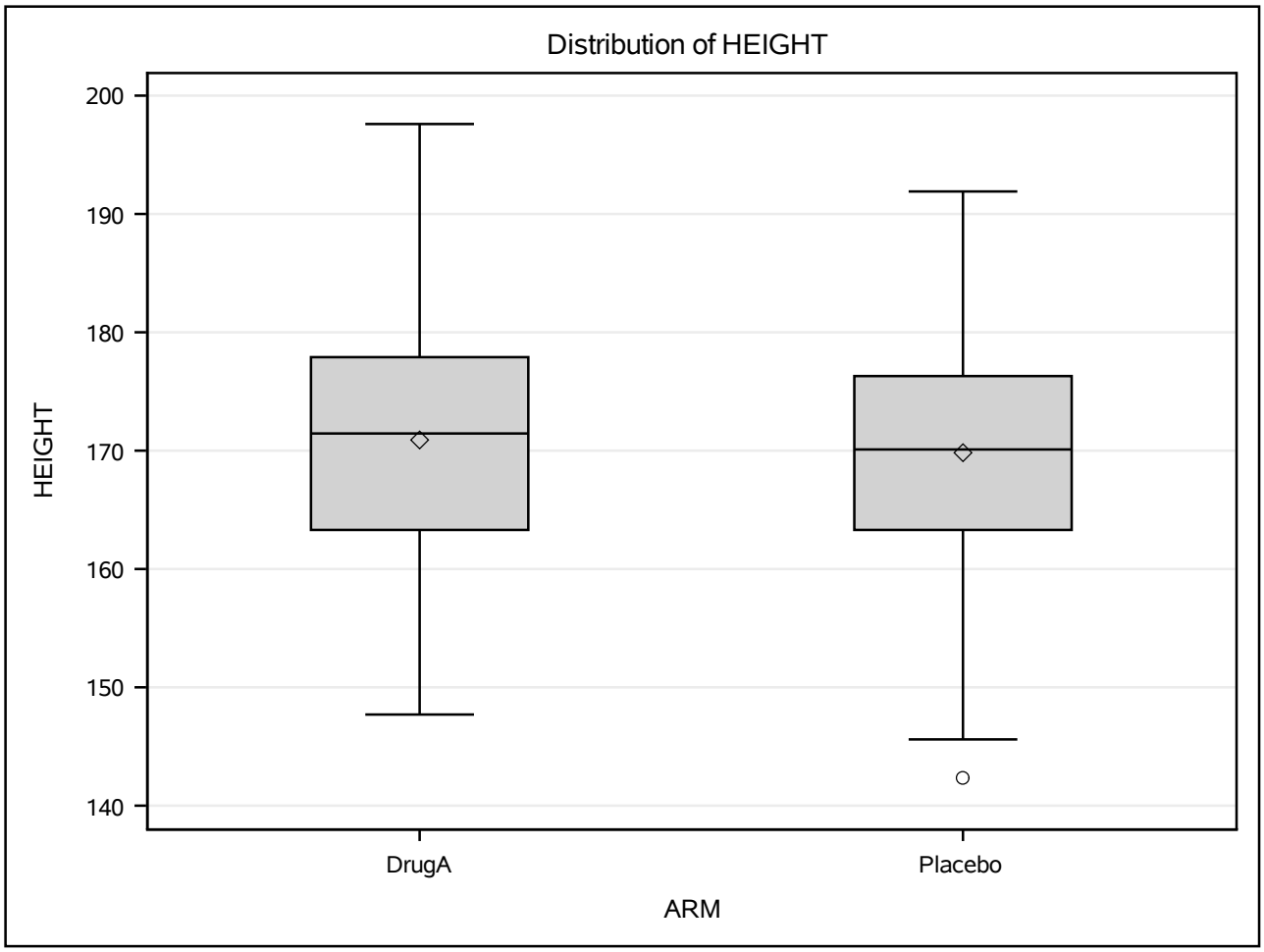
Levene's Test for Homogeneity of HEIGHT Variance
ANOVA of Squared Deviations from Group Means

Source	*DF*	*Sum of Squares*	*Mean Square*	*F Value*	*Pr > F*
ARM	1	7973.9	7973.9	0.38	0.5402
Error	225	4768203	21192.0		

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

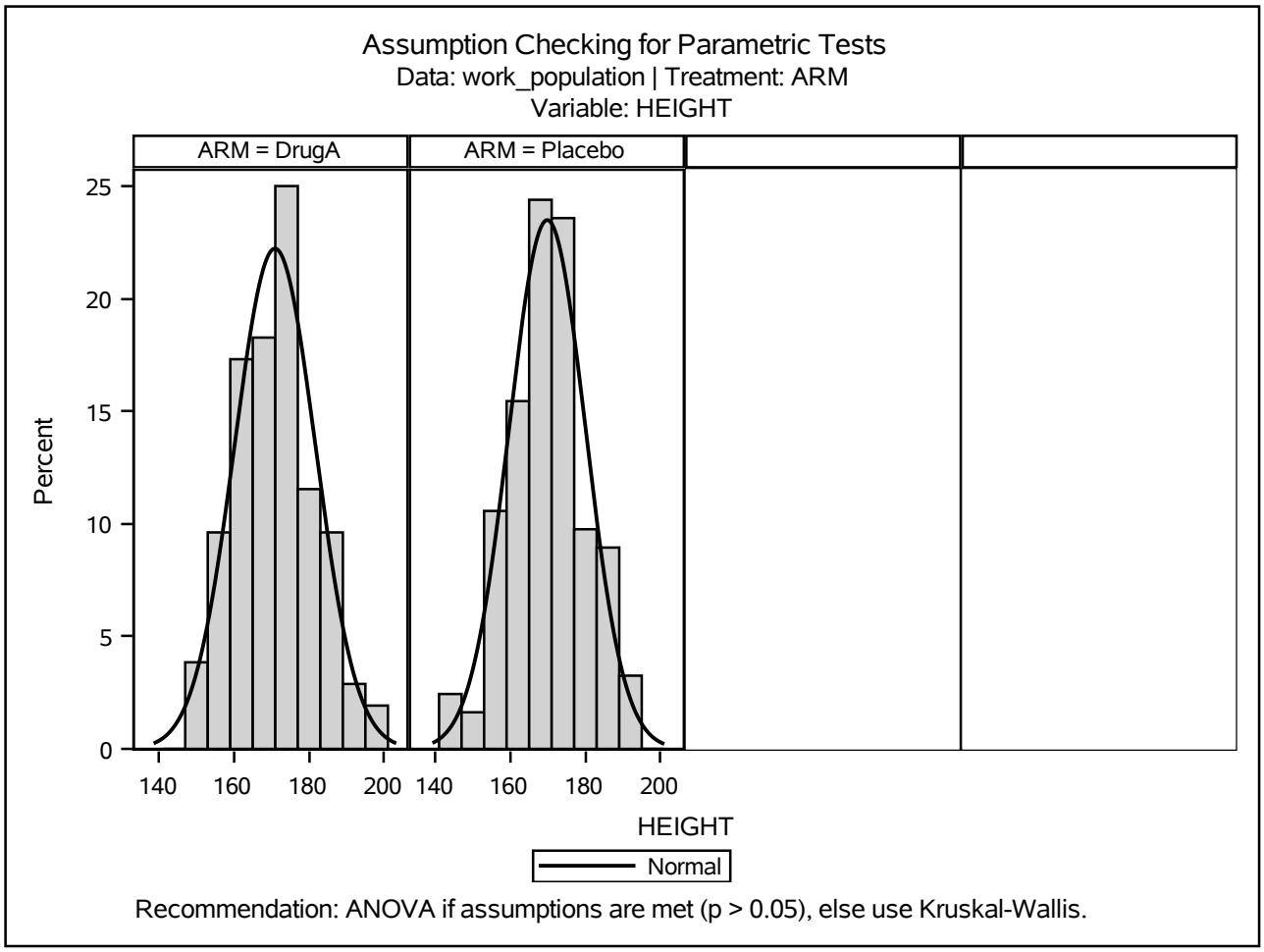
Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT

The GLM Procedure



		HEIGHT	
Level of ARM	*N*	*Mean*	*Std Dev*
DrugA	104	170.902885	10.7711360
Placebo	123	169.824390	10.1907169

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.


Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
ARM = DrugA
ARM = Placebo
Percent
25
20
15
10
5
0
140
160
180
200
140
160
180
200
HEIGHT
Normal
Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
QQ Plots for HEIGHT by ARM

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = DrugA

Moments			
N	104	Sum Weights	104
Mean	170.902885	Sum Observations	17773.9
Std Deviation	10.771136	Variance	116.01737
Skewness	0.00930147	Kurtosis	-0.3280185
Uncorrected SS	3049560.57	Corrected SS	11949.7891
Coeff Variation	6.30248928	Std Error Mean	1.05619678

Basic Statistical Measures			
Location		Variability	
Mean	170.9029	Std Deviation	10.77114
Median	171.4500	Variance	116.01737
Mode	147.7000	Range	49.90000
		Interquartile Range	14.60000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	161.8097	Pr > |t|	<.0001
Sign	M	52	Pr >= |M|	<.0001
Signed Rank	S	2730	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	197.60
99%	195.90
95%	186.90
90%	185.10
75% Q3	177.90
50% Median	171.45
25% Q1	163.30
10%	156.60
5%	154.50
1%	147.70
0% Min	147.70

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
QQ Plots for HEIGHT by ARM

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = DrugA

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
147.7	129	189.5	140
147.7	98	190.1	65
148.3	201	190.1	209
148.6	112	195.9	74
153.6	176	197.6	28

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
QQ Plots for HEIGHT by ARM

The UNIVARIATE Procedure
Variable: HEIGHT
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	169.82439	Sum Observations	20888.4
Std Deviation	10.1907169	Variance	103.850712
Skewness	-0.0927848	Kurtosis	-0.0138981
Uncorrected SS	3560029.58	Corrected SS	12669.7868
Coeff Variation	6.00073813	Std Error Mean	0.918866

Basic Statistical Measures			
Location		Variability	
Mean	169.8244	Std Deviation	10.19072
Median	170.1000	Variance	103.85071
Mode	170.1000	Range	49.50000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	184.8195	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	191.9
99%	191.3
95%	187.2
90%	185.0
75% Q3	176.3
50% Median	170.1
25% Q1	163.3
10%	157.2
5%	153.7
1%	145.6
0% Min	142.4

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
QQ Plots for HEIGHT by ARM

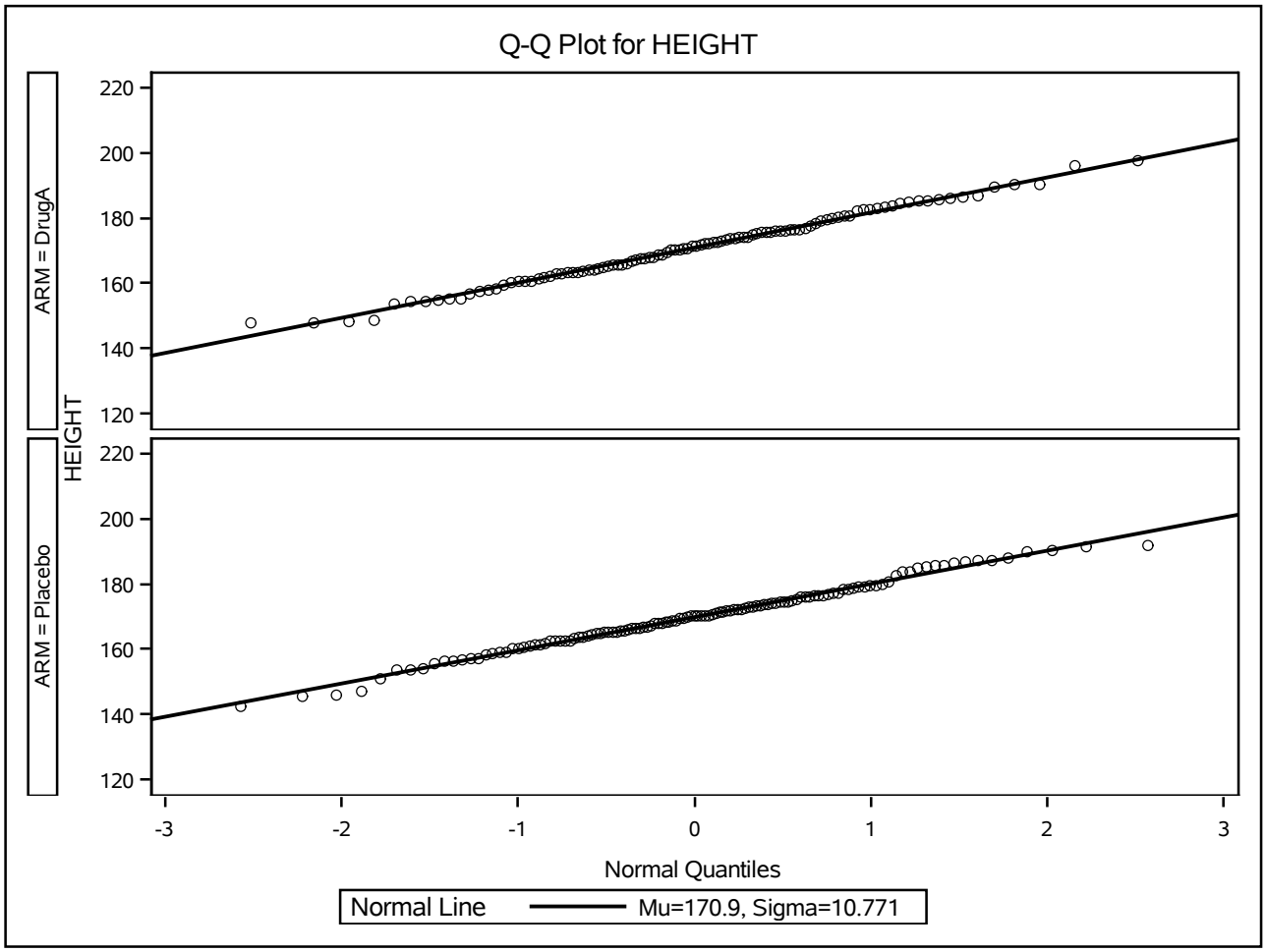
The UNIVARIATE Procedure
Variable: HEIGHT
ARM = Placebo

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
142.4	145	187.9	189
145.6	43	189.7	7
145.8	156	190.3	77
147.0	172	191.3	115
150.8	23	191.9	211

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: HEIGHT
QQ Plots for HEIGHT by ARM

The UNIVARIATE Procedure



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = DrugA

Moments			
N	104	Sum Weights	104
Mean	73.8240385	Sum Observations	7677.7
Std Deviation	15.4444039	Variance	238.529611
Skewness	0.14420436	Kurtosis	-0.2025079
Uncorrected SS	591367.37	Corrected SS	24568.5499
Coeff Variation	20.9205622	Std Error Mean	1.5144484

Basic Statistical Measures			
Location		Variability	
Mean	73.82404	Std Deviation	15.44440
Median	74.60000	Variance	238.52961
Mode	48.80000	Range	78.70000
		Interquartile Range	22.90000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	48.74649	Pr > |t|	<.0001
Sign	M	52	Pr >= |M|	<.0001
Signed Rank	S	2730	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.993207	Pr < W	0.8874
Kolmogorov-Smirnov	D	0.04727	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.02622	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.181972	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	118.3
99%	107.9
95%	99.7
90%	94.1
75% Q3	84.7
50% Median	74.6
25% Q1	61.8
10%	53.7

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = DrugA

Quantiles (Definition 5)	
Level	*Quantile*
5%	48.8
1%	43.5
0% Min	39.6

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
39.6	214	101.5	46
43.5	210	101.5	180
43.7	179	102.2	97
48.5	127	107.9	55
48.8	155	118.3	105

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	74.9073171	Sum Observations	9213.6
Std Deviation	15.018274	Variance	225.548553
Skewness	0.07200066	Kurtosis	-0.1548978
Uncorrected SS	717682.98	Corrected SS	27516.9234
Coeff Variation	20.0491414	Std Error Mean	1.35415216

Basic Statistical Measures			
Location		Variability	
Mean	74.90732	Std Deviation	15.01827
Median	75.40000	Variance	225.54855
Mode	70.60000	Range	79.30000
		Interquartile Range	22.90000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	55.31677	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.982519	Pr < W	0.1125
Kolmogorov-Smirnov	D	0.055075	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.064606	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.460452	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	124.5
99%	101.1
95%	97.4
90%	93.5
75% Q3	85.9
50% Median	75.4
25% Q1	63.0
10%	54.6

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = Placebo

Quantiles (Definition 5)	
Level	*Quantile*
5%	50.2
1%	45.3
0% Min	45.2

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
45.2	104	100.1	22
45.3	59	100.5	167
46.0	146	101.0	206
47.7	43	101.1	15
48.6	19	124.5	141

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The GLM Procedure

Class Level Information

Class	*Levels*	*Values*
ARM	2	DrugA Placebo

Number of Observations Read	227
Number of Observations Used	227

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The GLM Procedure

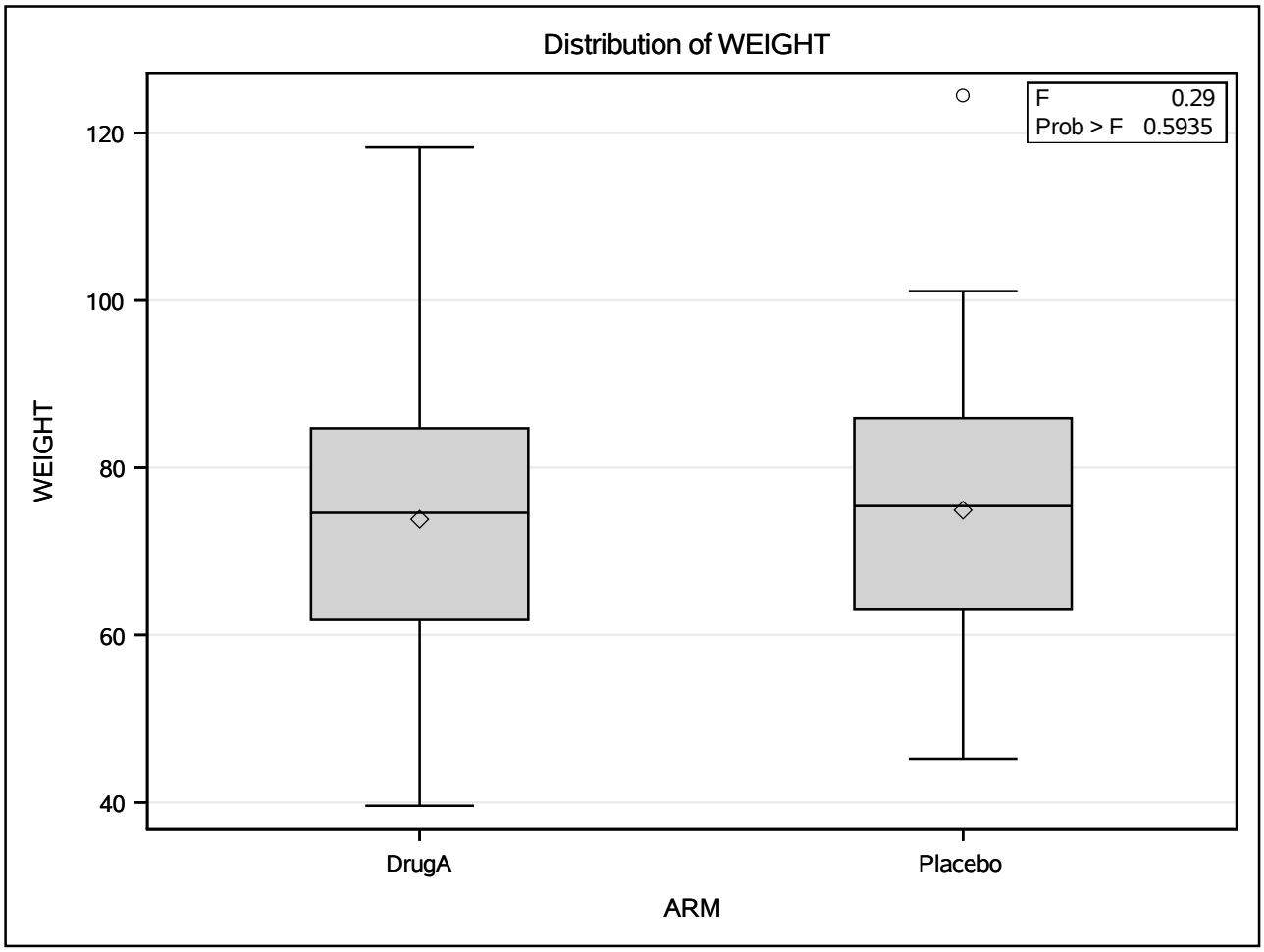
Dependent Variable: WEIGHT

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	66.12915	66.12915	0.29	0.5935
Error	225	52085.47332	231.49099		
Corrected Total	226	52151.60247			

R-Square	Coeff Var	Root MSE	WEIGHT Mean
0.001268	20.44701	15.21483	74.41101

Source	DF	Type I SS	Mean Square	F Value	Pr > F
ARM	1	66.12914848	66.12914848	0.29	0.5935

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ARM	1	66.12914848	66.12914848	0.29	0.5935



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The GLM Procedure

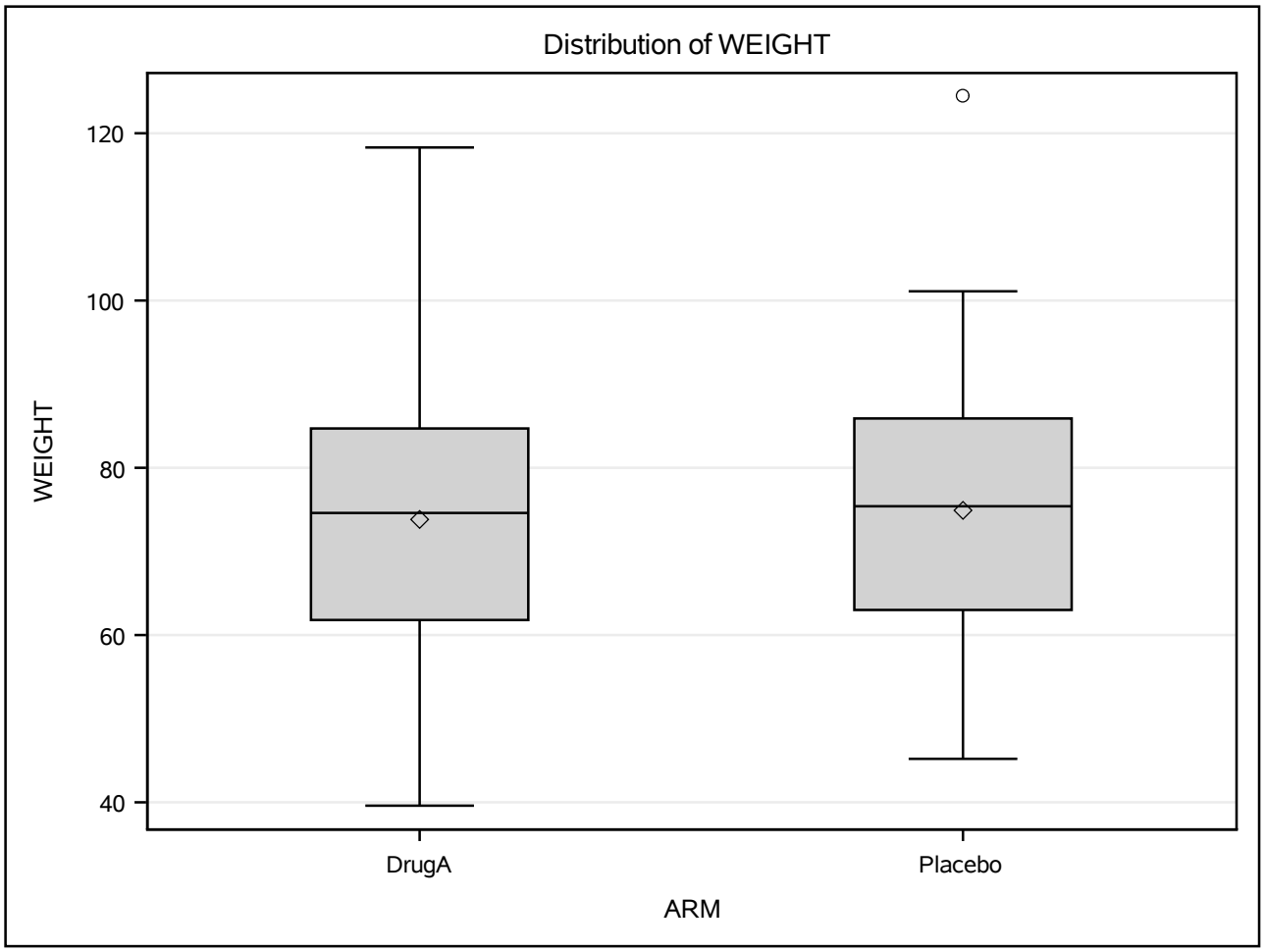
Levene's Test for Homogeneity of WEIGHT Variance
ANOVA of Squared Deviations from Group Means

Source	*DF*	*Sum of Squares*	*Mean Square*	*F Value*	*Pr > F*
ARM	1	8835.0	8835.0	0.09	0.7600
Error	225	21255500	94468.9		

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

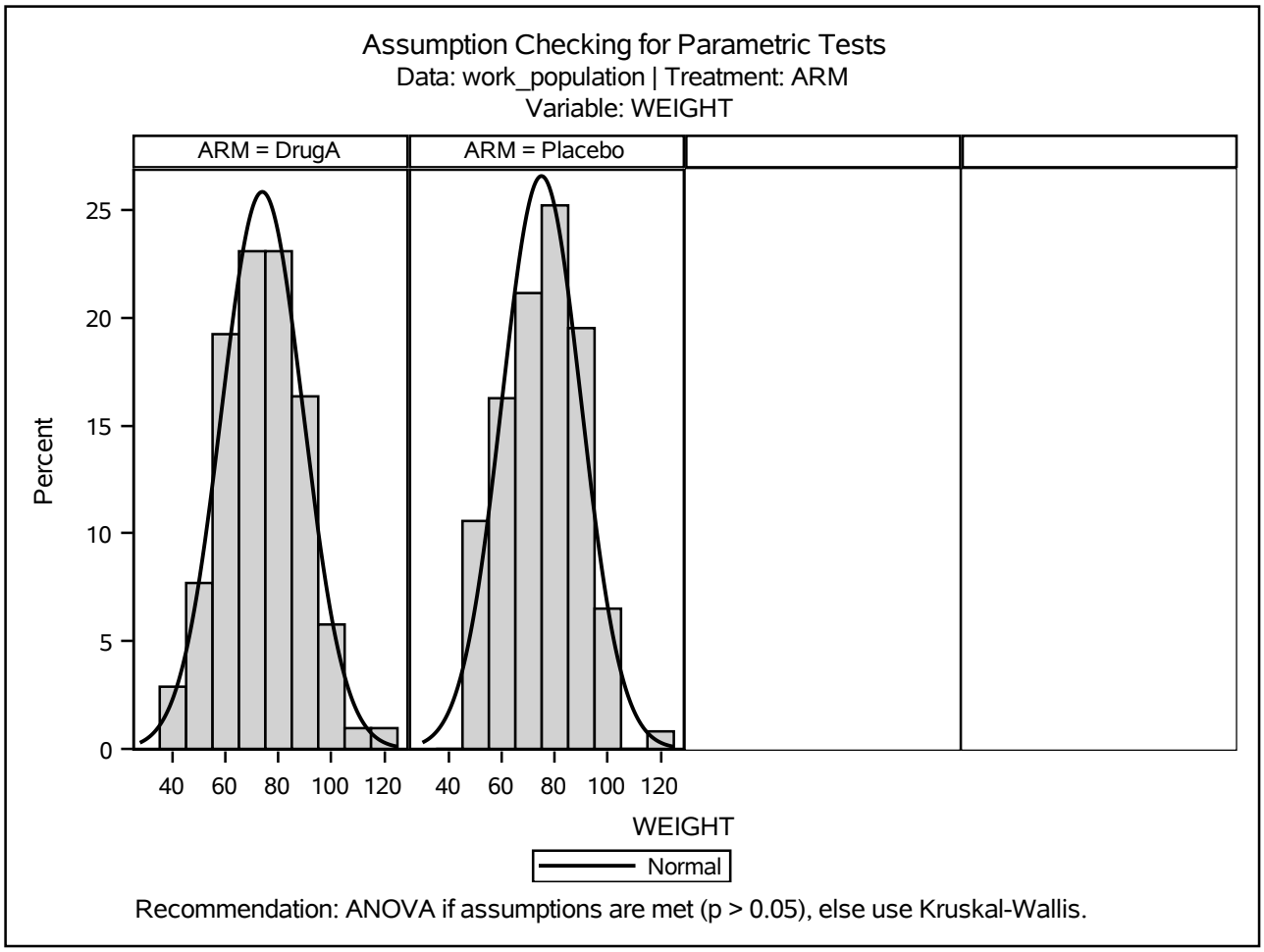
Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT

The GLM Procedure



		WEIGHT	
Level of ARM	*N*	*Mean*	*Std Dev*
DrugA	104	73.8240385	15.4444039
Placebo	123	74.9073171	15.0182740

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.


Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
ARM = DrugA
ARM = Placebo
Percent
0
5
10
15
20
25
40
60
80
100
120
WEIGHT
Normal
Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
QQ Plots for WEIGHT by ARM

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = DrugA

Moments			
N	104	Sum Weights	104
Mean	73.8240385	Sum Observations	7677.7
Std Deviation	15.4444039	Variance	238.529611
Skewness	0.14420436	Kurtosis	-0.2025079
Uncorrected SS	591367.37	Corrected SS	24568.5499
Coeff Variation	20.9205622	Std Error Mean	1.5144484

Basic Statistical Measures			
Location		Variability	
Mean	73.82404	Std Deviation	15.44440
Median	74.60000	Variance	238.52961
Mode	48.80000	Range	78.70000
		Interquartile Range	22.90000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	48.74649	Pr > |t|	<.0001
Sign	M	52	Pr >= |M|	<.0001
Signed Rank	S	2730	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	118.3
99%	107.9
95%	99.7
90%	94.1
75% Q3	84.7
50% Median	74.6
25% Q1	61.8
10%	53.7
5%	48.8
1%	43.5
0% Min	39.6

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
QQ Plots for WEIGHT by ARM

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = DrugA

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
39.6	214	101.5	46
43.5	210	101.5	180
43.7	179	102.2	97
48.5	127	107.9	55
48.8	155	118.3	105

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
QQ Plots for WEIGHT by ARM

The UNIVARIATE Procedure
Variable: WEIGHT
ARM = Placebo

Moments			
N	123	Sum Weights	123
Mean	74.9073171	Sum Observations	9213.6
Std Deviation	15.018274	Variance	225.548553
Skewness	0.07200066	Kurtosis	-0.1548978
Uncorrected SS	717682.98	Corrected SS	27516.9234
Coeff Variation	20.0491414	Std Error Mean	1.35415216

Basic Statistical Measures			
Location		Variability	
Mean	74.90732	Std Deviation	15.01827
Median	75.40000	Variance	225.54855
Mode	70.60000	Range	79.30000
		Interquartile Range	22.90000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	55.31677	Pr > |t|	<.0001
Sign	M	61.5	Pr >= |M|	<.0001
Signed Rank	S	3813	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	124.5
99%	101.1
95%	97.4
90%	93.5
75% Q3	85.9
50% Median	75.4
25% Q1	63.0
10%	54.6
5%	50.2
1%	45.3
0% Min	45.2

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
QQ Plots for WEIGHT by ARM

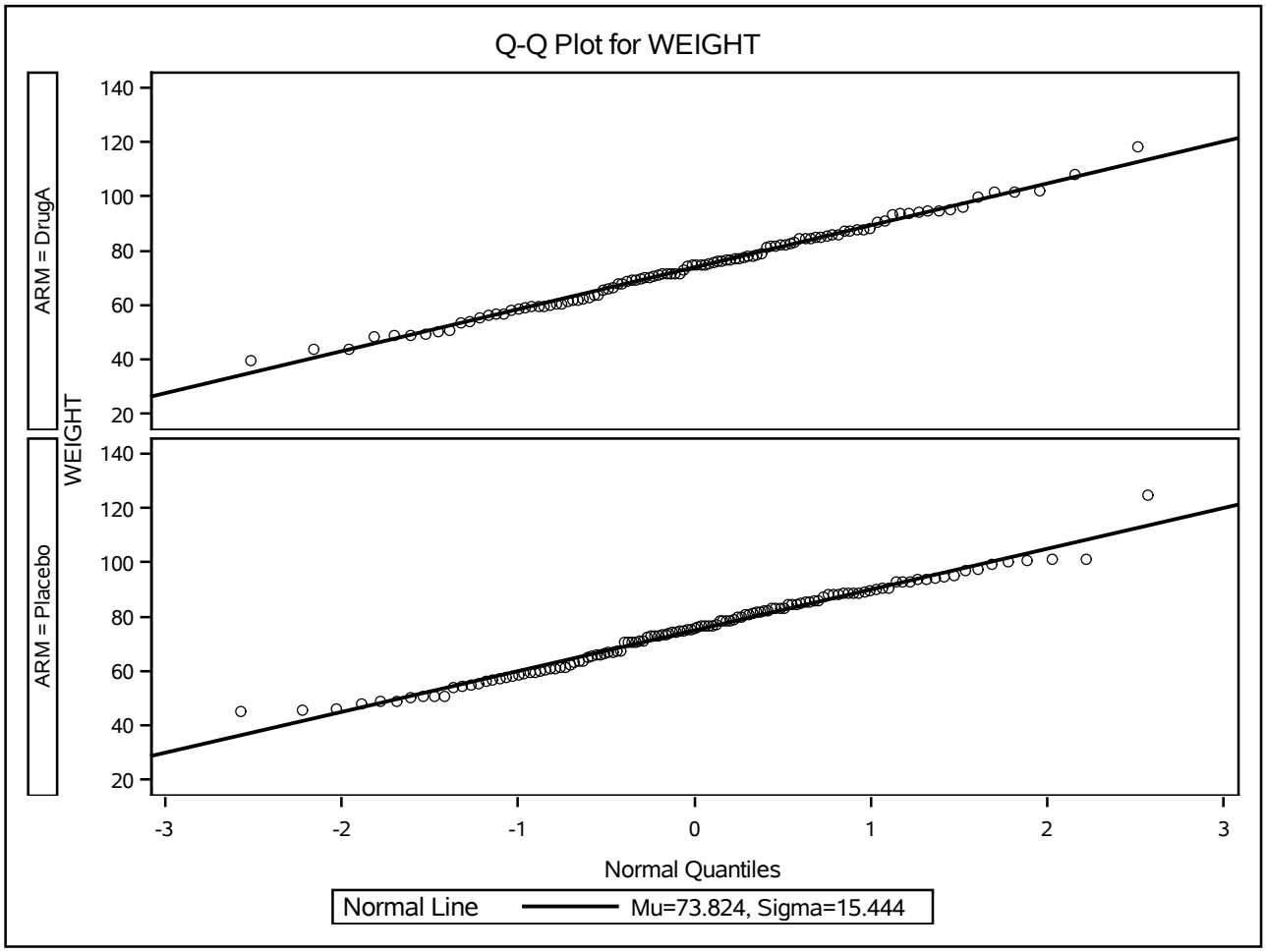
The UNIVARIATE Procedure
Variable: WEIGHT
ARM = Placebo

Extreme Observations			
Lowest		*Highest*	
Value	*Obs*	*Value*	*Obs*
45.2	104	100.1	22
45.3	59	100.5	167
46.0	146	101.0	206
47.7	43	101.1	15
48.6	19	124.5	141

Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.

Assumption Checking for Parametric Tests
Data: work_population | Treatment: ARM
Variable: WEIGHT
QQ Plots for WEIGHT by ARM

The UNIVARIATE Procedure



Recommendation: ANOVA if assumptions are met (p > 0.05), else use Kruskal-Wallis.