Obs	GROUP	I	DOPA	LNDOPA
1	neurblst	1	48.000	1.68124
2	neurblst	1	133.000	2.12385
3	neurblst	1	34.000	1.53148
4	neurblst	1	109.000	2.03743
5	neurblst	1	4.500	0.65321
6	neurblst	1	170.000	2.23045
7	neurblst	1	10.300	1.01284
8	neurblst	1	8.500	0.92942
9	neurblst	1	6.000	0.77815
10	neurblst	1	17.000	1.23045
11	neurblst	1	9.000	0.95424
12	neurblst	1	15.300	1.18469
13	neurblst	1	2.400	0.38021
14	neurblst	1	5.900	0.77085
15	neurblst	1	5.900	0.77085
16	control	2	16.036	1.20508
17	control	2	0.751	-0.12413
18	control	2	4.133	0.61626
19	control	2	0.925	-0.03376
20	control	2	5.605	0.74854
21	control	2	0.710	-0.14857
22	control	2	1.495	0.17472
23	control	2	5.211	0.71693
24	control	2	9.895	0.99543
25	control	2	0.917	-0.03750
26	control	2	4.365	0.63996
27	control	2	2.349	0.37090
28	control	2	0.943	-0.02556
29	control	2	0.388	-0.41090
30	control	2	0.536	-0.27061
31	control	2	5.347	0.72811
32	control	2	6.063	0.78271
33	control	2	4.051	0.60756

The UNIVARIATE Procedure
Variable: DOPA

Moments

N	33	Sum Weights	33
Mean	19.6521212	Sum Observations	648.52
Std Deviation	39.7816861	Variance	1582.58255
Skewness	2.90194849	Kurtosis	7.86865192
Uncorrected SS	63387.4353	Corrected SS	50642.6416
Coeff Variation	202.429477	Std Error Mean	6.92510267

Basic Statistical Measures

Location		Variability	
Mean	19.65212	Std Deviation	39.78169
Median	5.60500	Variance	1583
Mode	5.90000	Range	169.61200
		Interquartile Range	7.95100

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	2.837809	Pr > |t|	0.0078
Sign	M	16.5	Pr >= |M|	<.0001
Signed Rank	S	280.5	Pr >= |S|	<.0001

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.505821	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.375061	Pr > D	<0.0100

The UNIVARIATE Procedure
Variable: DOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Anderson-Darling	A-Sq	6.850042	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	170.000
99%	170.000
95%	133.000
90%	48.000
75% Q3	10.300
50% Median	5.605
25% Q1	2.349
10%	0.751
5%	0.536
1%	0.388
0% Min	0.388

Extreme Observations

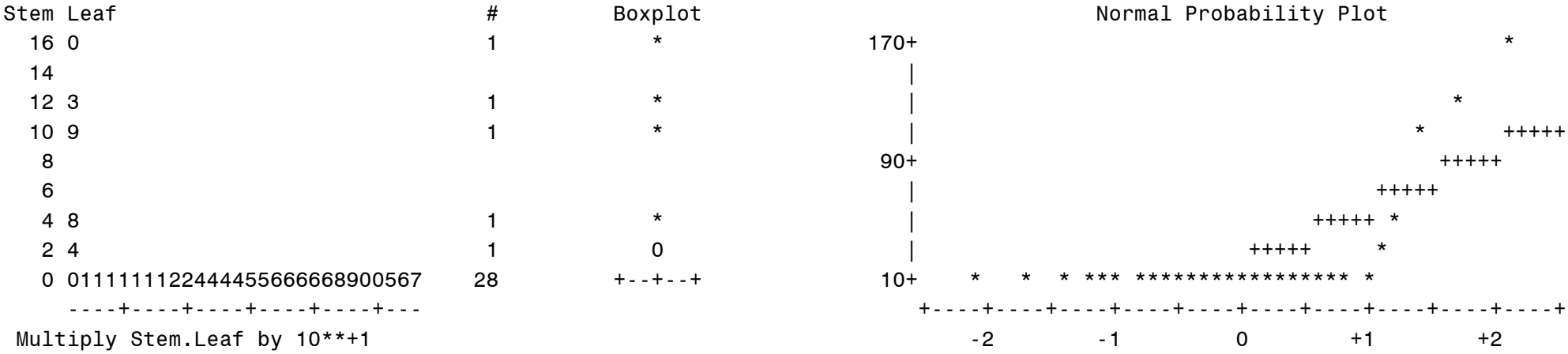
-----Lowest----		----Highest---	
Value	Obs	Value	Obs
0.388	14	34	21
0.536	15	48	19
0.710	6	109	22
0.751	2	133	20
0.917	10	170	24

The UNIVARIATE Procedure
Variable: DOPA

Frequency Counts

Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum
0.388	1	3.0	3.0	2.349	1	3.0	27.3	5.605	1	3.0	51.5	15.300	1	3.0	78.8
0.536	1	3.0	6.1	2.400	1	3.0	30.3	5.900	2	6.1	57.6	16.036	1	3.0	81.8
0.710	1	3.0	9.1	4.051	1	3.0	33.3	6.000	1	3.0	60.6	17.000	1	3.0	84.8
0.751	1	3.0	12.1	4.133	1	3.0	36.4	6.063	1	3.0	63.6	34.000	1	3.0	87.9
0.917	1	3.0	15.2	4.365	1	3.0	39.4	8.500	1	3.0	66.7	48.000	1	3.0	90.9
0.925	1	3.0	18.2	4.500	1	3.0	42.4	9.000	1	3.0	69.7	109.000	1	3.0	93.9
0.943	1	3.0	21.2	5.211	1	3.0	45.5	9.895	1	3.0	72.7	133.000	1	3.0	97.0
1.495	1	3.0	24.2	5.347	1	3.0	48.5	10.300	1	3.0	75.8	170.000	1	3.0	100.0

The UNIVARIATE Procedure
Variable: DOPA



The UNIVARIATE Procedure
Variable: LNDOPA

Moments

N	33	Sum Weights	33
Mean	0.75165242	Sum Observations	24.80453
Std Deviation	0.67353486	Variance	0.45364921
Skewness	0.40923115	Kurtosis	-0.0483395
Uncorrected SS	33.1611597	Corrected SS	14.5167746
Coeff Variation	89.6072224	Std Error Mean	0.11724737

Basic Statistical Measures

Location		Variability	
Mean	0.751652	Std Deviation	0.67353
Median	0.748540	Variance	0.45365
Mode	0.770850	Range	2.64135
		Interquartile Range	0.64194

Tests for Location: Mu0=0

Test		-Statistic-	-----p Value------	
Student's t	t	6.410825	Pr > |t|	<.0001
Sign	M	9.5	Pr >= |M|	0.0013
Signed Rank	S	248.5	Pr >= |S|	<.0001

Tests for Normality

Test		--Statistic---	-----p Value------	
Shapiro-Wilk	W	0.955473	Pr < W	0.1919
Kolmogorov-Smirnov	D	0.117974	Pr > D	>0.1500

The UNIVARIATE Procedure
Variable: LNDOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Anderson-Darling	A-Sq	0.526527	Pr > A-Sq	0.1735

Quantiles (Definition 5)

Quantile	Estimate
100% Max	2.23045
99%	2.23045
95%	2.12385
90%	1.68124
75% Q3	1.01284
50% Median	0.74854
25% Q1	0.37090
10%	-0.12413
5%	-0.27061
1%	-0.41090
0% Min	-0.41090

Extreme Observations

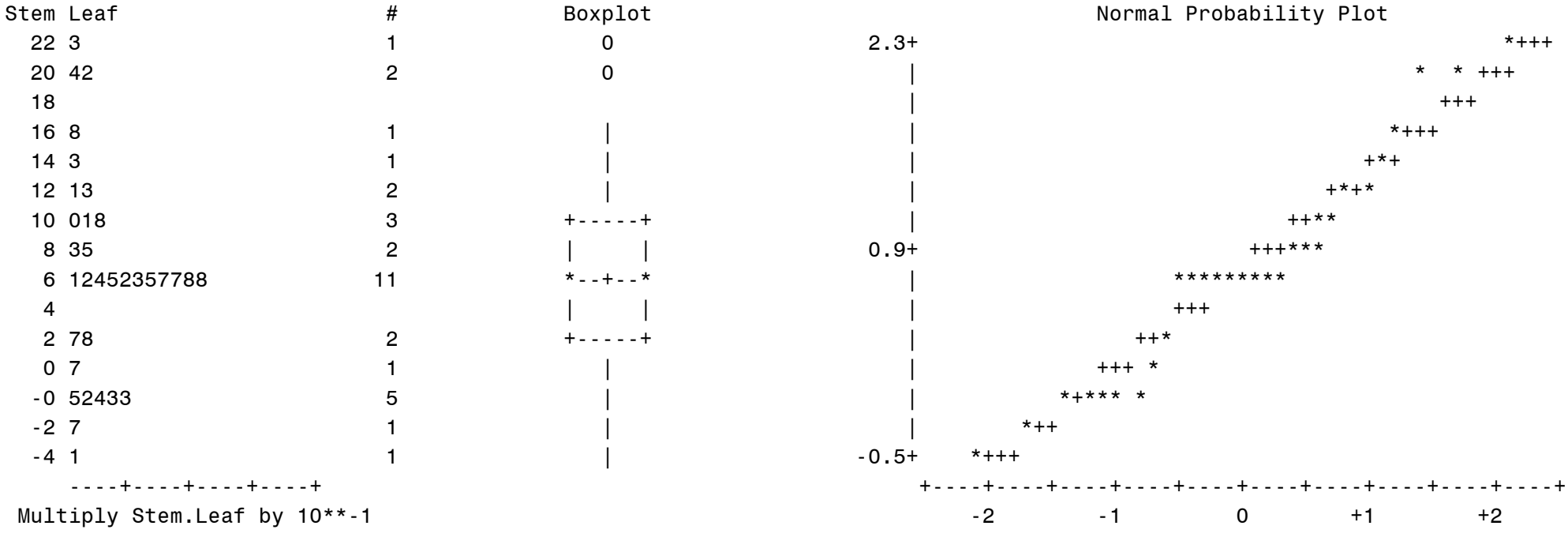
------Lowest-----		-----Highest-----	
Value	Obs	Value	Obs
-0.41090	14	1.53148	21
-0.27061	15	1.68124	19
-0.14857	6	2.03743	22
-0.12413	2	2.12385	20
-0.03750	10	2.23045	24

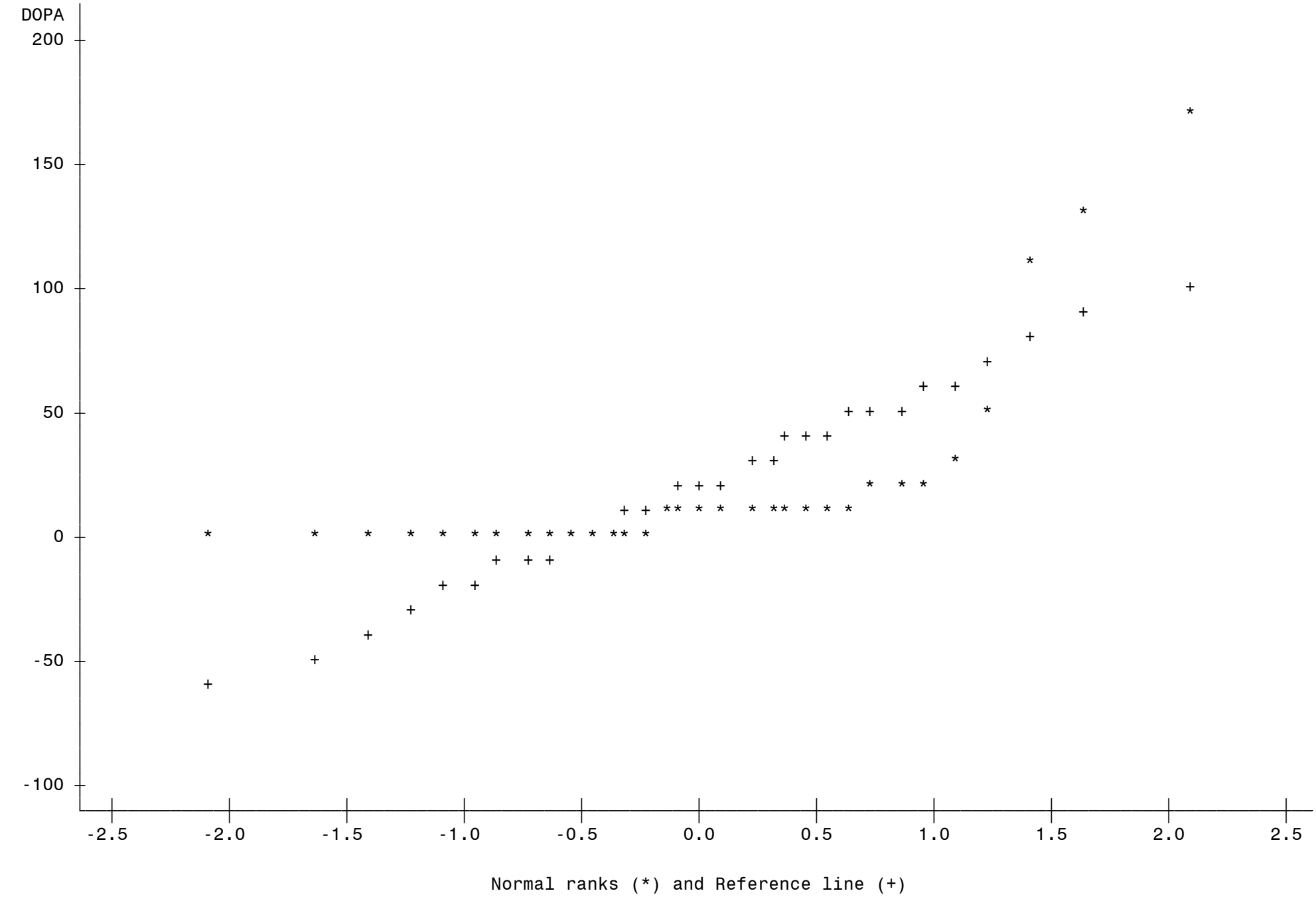
The UNIVARIATE Procedure
Variable: LNDOPA

Frequency Counts

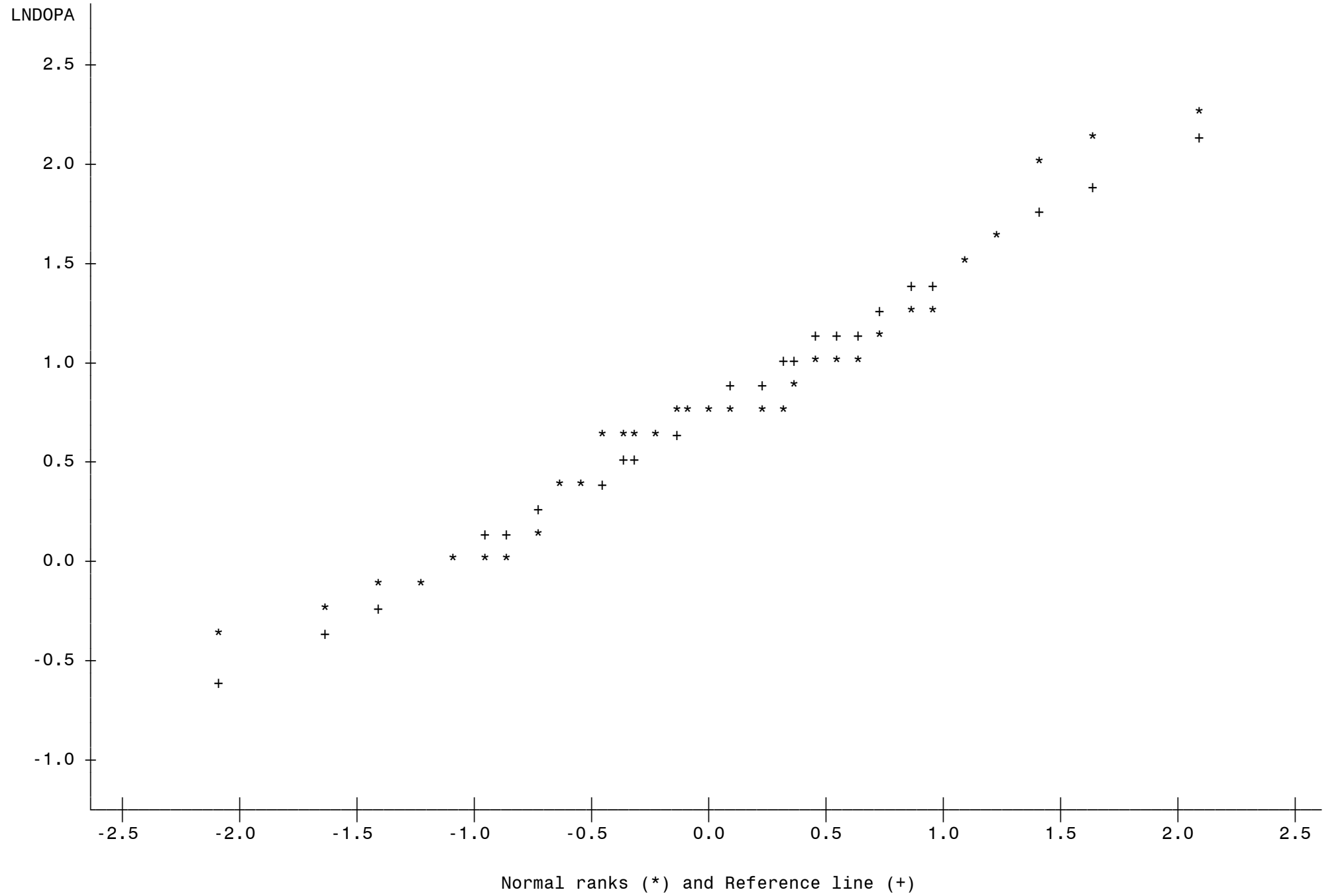
Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum	Value	Count	Percents Cell	Percents Cum
-0.41090	1	3.0	3.0	0.37090	1	3.0	27.3	0.74854	1	3.0	51.5	1.18469	1	3.0	78.8
-0.27061	1	3.0	6.1	0.38021	1	3.0	30.3	0.77085	2	6.1	57.6	1.20508	1	3.0	81.8
-0.14857	1	3.0	9.1	0.60756	1	3.0	33.3	0.77815	1	3.0	60.6	1.23045	1	3.0	84.8
-0.12413	1	3.0	12.1	0.61626	1	3.0	36.4	0.78271	1	3.0	63.6	1.53148	1	3.0	87.9
-0.03750	1	3.0	15.2	0.63996	1	3.0	39.4	0.92942	1	3.0	66.7	1.68124	1	3.0	90.9
-0.03376	1	3.0	18.2	0.65321	1	3.0	42.4	0.95424	1	3.0	69.7	2.03743	1	3.0	93.9
-0.02556	1	3.0	21.2	0.71693	1	3.0	45.5	0.99543	1	3.0	72.7	2.12385	1	3.0	97.0
0.17472	1	3.0	24.2	0.72811	1	3.0	48.5	1.01284	1	3.0	75.8	2.23045	1	3.0	100.0

The UNIVARIATE Procedure
Variable: LNDOPA





NOTE: 6 obs hidden.



NOTE: 11 obs hidden.

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: DOPA

Moments

N	18	Sum Weights	18
Mean	3.87333333	Sum Observations	69.72
Std Deviation	4.00974174	Variance	16.0780288
Skewness	1.85155829	Kurtosis	4.15951154
Uncorrected SS	543.37529	Corrected SS	273.32649
Coeff Variation	103.521732	Std Error Mean	0.94510519

Basic Statistical Measures

Location		Variability	
Mean	3.873333	Std Deviation	4.00974
Median	3.200000	Variance	16.07803
Mode	.	Range	15.64800
		Interquartile Range	4.43000

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	4.098309	Pr > |t|	0.0007
Sign	M	9	Pr >= |M|	<.0001
Signed Rank	S	85.5	Pr >= |S|	<.0001

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: DOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.790918	Pr < W	0.0011
Kolmogorov-Smirnov	D	0.192364	Pr > D	0.0778
Cramer-von Mises	W-Sq	0.179623	Pr > W-Sq	0.0086
Anderson-Darling	A-Sq	1.186157	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	16.036
99%	16.036
95%	16.036
90%	9.895
75% Q3	5.347
50% Median	3.200
25% Q1	0.917
10%	0.536
5%	0.388
1%	0.388
0% Min	0.388

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: DOPA

Extreme Observations

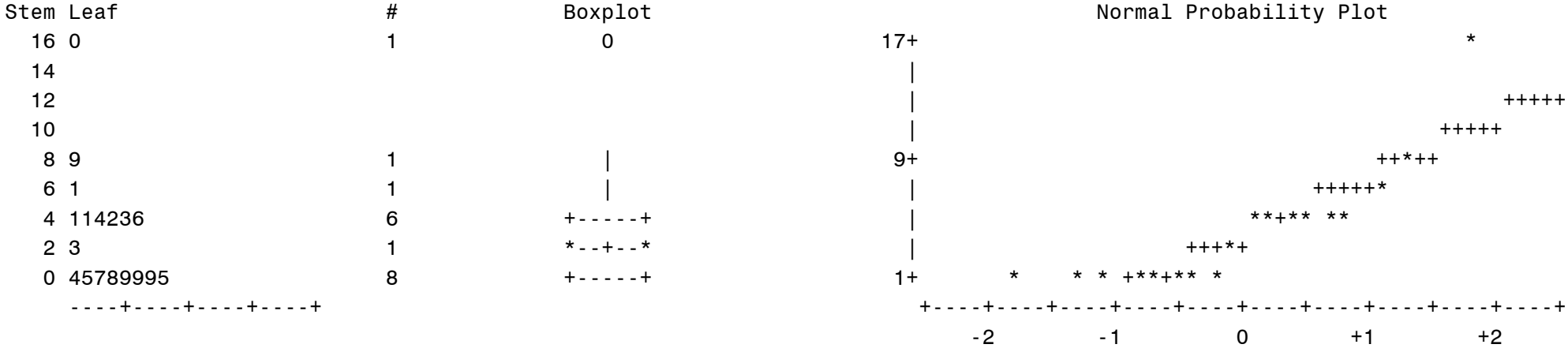
-----Lowest----		-----Highest----	
Value	Obs	Value	Obs
0.388	14	5.347	16
0.536	15	5.605	5
0.710	6	6.063	17
0.751	2	9.895	9
0.917	10	16.036	1

Frequency Counts

		Percents				Percents				Percents				Percents	
Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum
0.388	1	5.6	5.6	0.925	1	5.6	33.3	4.133	1	5.6	61.1	5.605	1	5.6	83.3
0.536	1	5.6	11.1	0.943	1	5.6	38.9	4.365	1	5.6	66.7	6.063	1	5.6	88.9
0.710	1	5.6	16.7	1.495	1	5.6	44.4	5.211	1	5.6	72.2	9.895	1	5.6	94.4
0.751	1	5.6	22.2	2.349	1	5.6	50.0	5.347	1	5.6	77.8	16.036	1	5.6	100.0
0.917	1	5.6	27.8	4.051	1	5.6	55.6								

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: DOPA



---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Moments

N	18	Sum Weights	18
Mean	0.363065	Sum Observations	6.53517
Std Deviation	0.47877199	Variance	0.22922262
Skewness	-0.0203277	Kurtosis	-1.2478952
Uncorrected SS	6.26947598	Corrected SS	3.89678448
Coeff Variation	131.869497	Std Error Mean	0.11284764

Basic Statistical Measures

Location		Variability	
Mean	0.363065	Std Deviation	0.47877
Median	0.489230	Variance	0.22922
Mode	.	Range	1.61598
		Interquartile Range	0.76561

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	3.217303	Pr > |t|	0.0051
Sign	M	2	Pr >= |M|	0.4807
Signed Rank	S	54.5	Pr >= |S|	0.0159

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.935195	Pr < W	0.2394
Kolmogorov-Smirnov	D	0.195209	Pr > D	0.0695
Cramer-von Mises	W-Sq	0.106987	Pr > W-Sq	0.0865
Anderson-Darling	A-Sq	0.571056	Pr > A-Sq	0.1230

Quantiles (Definition 5)

Quantile	Estimate
100% Max	1.20508
99%	1.20508
95%	1.20508
90%	0.99543
75% Q3	0.72811
50% Median	0.48923
25% Q1	-0.03750
10%	-0.27061
5%	-0.41090
1%	-0.41090
0% Min	-0.41090

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Extreme Observations

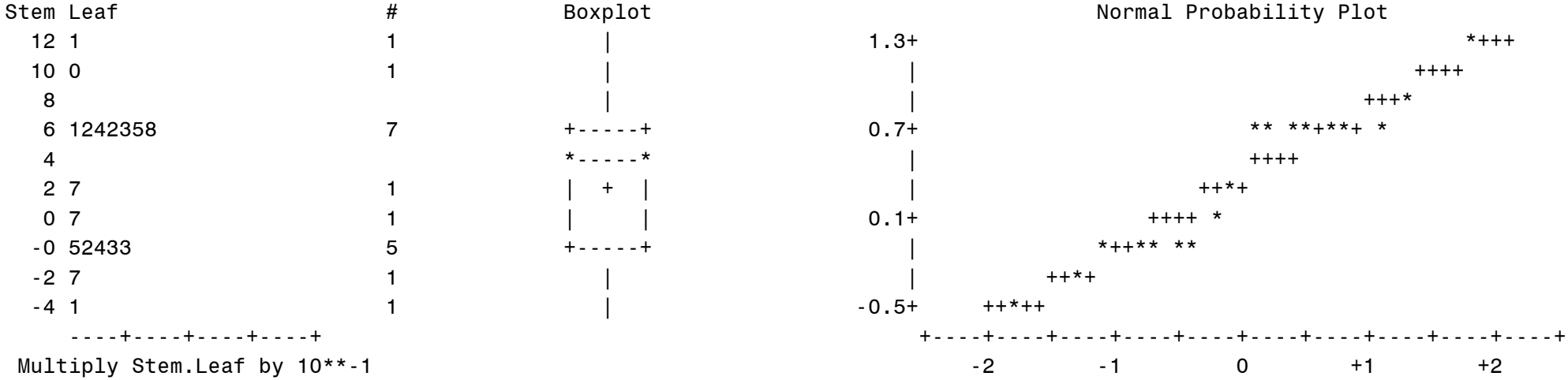
------Lowest-----		-----Highest-----	
Value	Obs	Value	Obs
-0.41090	14	0.72811	16
-0.27061	15	0.74854	5
-0.14857	6	0.78271	17
-0.12413	2	0.99543	9
-0.03750	10	1.20508	1

Frequency Counts

		Percents				Percents				Percents				Percents	
Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum
-0.41090	1	5.6	5.6	-0.03376	1	5.6	33.3	0.61626	1	5.6	61.1	0.74854	1	5.6	83.3
-0.27061	1	5.6	11.1	-0.02556	1	5.6	38.9	0.63996	1	5.6	66.7	0.78271	1	5.6	88.9
-0.14857	1	5.6	16.7	0.17472	1	5.6	44.4	0.71693	1	5.6	72.2	0.99543	1	5.6	94.4
-0.12413	1	5.6	22.2	0.37090	1	5.6	50.0	0.72811	1	5.6	77.8	1.20508	1	5.6	100.0
-0.03750	1	5.6	27.8	0.60756	1	5.6	55.6								

---------- GROUP=control ----------

The UNIVARIATE Procedure
Variable: LNDOPA



---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: DOPA

Moments

N	15	Sum Weights	15
Mean	38.5866667	Sum Observations	578.8
Std Deviation	53.7919918	Variance	2893.57838
Skewness	1.679039	Kurtosis	1.6314953
Uncorrected SS	62844.06	Corrected SS	40510.0973
Coeff Variation	139.405646	Std Error Mean	13.8890326

Basic Statistical Measures

Location		Variability	
Mean	38.58667	Std Deviation	53.79199
Median	10.30000	Variance	2894
Mode	5.90000	Range	167.60000
		Interquartile Range	42.10000

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	2.778211	Pr > |t|	0.0148
Sign	M	7.5	Pr >= |M|	<.0001
Signed Rank	S	60	Pr >= |S|	<.0001

---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: DOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.690309	Pr < W	0.0002
Kolmogorov-Smirnov	D	0.322567	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.400772	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	2.085257	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	170.0
99%	170.0
95%	170.0
90%	133.0
75% Q3	48.0
50% Median	10.3
25% Q1	5.9
10%	4.5
5%	2.4
1%	2.4
0% Min	2.4

---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: DOPA

Extreme Observations

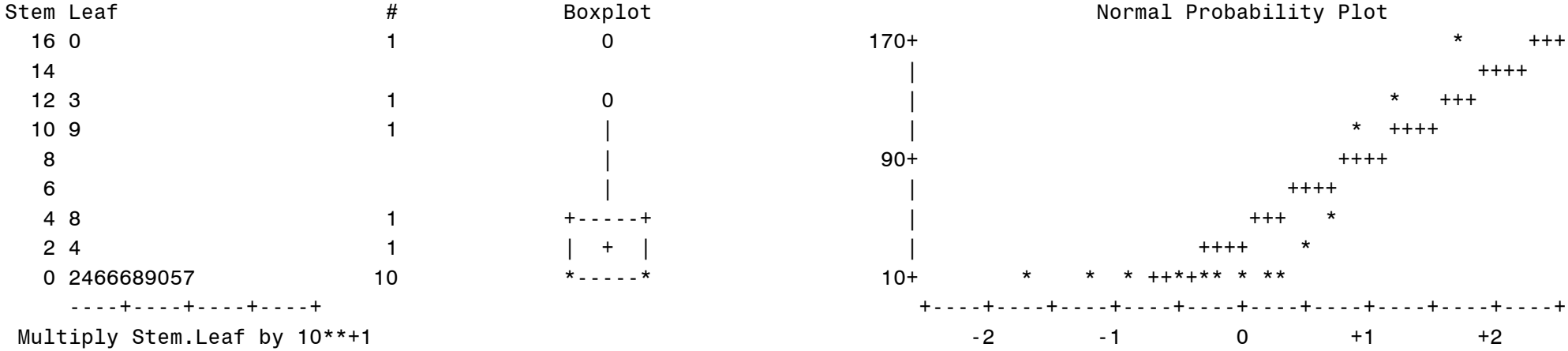
----Lowest----		----Highest---	
Value	Obs	Value	Obs
2.4	13	34	3
4.5	5	48	1
5.9	15	109	4
5.9	14	133	2
6.0	9	170	6

Frequency Counts

		Percents				Percents				Percents				Percents	
Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum
2.4	1	6.7	6.7	8.5	1	6.7	40.0	17.0	1	6.7	66.7	109.0	1	6.7	86.7
4.5	1	6.7	13.3	9.0	1	6.7	46.7	34.0	1	6.7	73.3	133.0	1	6.7	93.3
5.9	2	13.3	26.7	10.3	1	6.7	53.3	48.0	1	6.7	80.0	170.0	1	6.7	100.0
6.0	1	6.7	33.3	15.3	1	6.7	60.0								

---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: DOPA



---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Moments

N	15	Sum Weights	15
Mean	1.21795733	Sum Observations	18.26936
Std Deviation	0.57572208	Variance	0.33145591
Skewness	0.59558441	Kurtosis	-0.8122927
Uncorrected SS	26.8916838	Corrected SS	4.64038276
Coeff Variation	47.2694784	Std Error Mean	0.1486508

Basic Statistical Measures

Location		Variability	
Mean	1.217957	Std Deviation	0.57572
Median	1.012840	Variance	0.33146
Mode	0.770850	Range	1.85024
		Interquartile Range	0.91039

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	8.193412	Pr > |t|	<.0001
Sign	M	7.5	Pr >= |M|	<.0001
Signed Rank	S	60	Pr >= |S|	<.0001

---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.918478	Pr < W	0.1826
Kolmogorov-Smirnov	D	0.172517	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.088893	Pr > W-Sq	0.1467
Anderson-Darling	A-Sq	0.529615	Pr > A-Sq	0.1497

Quantiles (Definition 5)

Quantile	Estimate
100% Max	2.23045
99%	2.23045
95%	2.23045
90%	2.12385
75% Q3	1.68124
50% Median	1.01284
25% Q1	0.77085
10%	0.65321
5%	0.38021
1%	0.38021
0% Min	0.38021

---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: LNDOPA

Extreme Observations

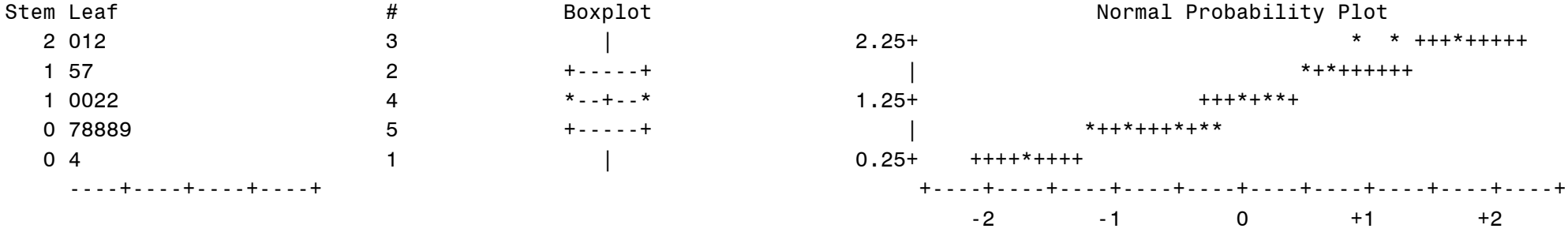
------Lowest-----		-----Highest-----	
Value	Obs	Value	Obs
0.38021	13	1.53148	3
0.65321	5	1.68124	1
0.77085	15	2.03743	4
0.77085	14	2.12385	2
0.77815	9	2.23045	6

Frequency Counts

		Percents				Percents				Percents				Percents	
Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum	Value	Count	Cell	Cum
0.38021	1	6.7	6.7	0.92942	1	6.7	40.0	1.23045	1	6.7	66.7	2.03743	1	6.7	86.7
0.65321	1	6.7	13.3	0.95424	1	6.7	46.7	1.53148	1	6.7	73.3	2.12385	1	6.7	93.3
0.77085	2	13.3	26.7	1.01284	1	6.7	53.3	1.68124	1	6.7	80.0	2.23045	1	6.7	100.0
0.77815	1	6.7	33.3	1.18469	1	6.7	60.0								

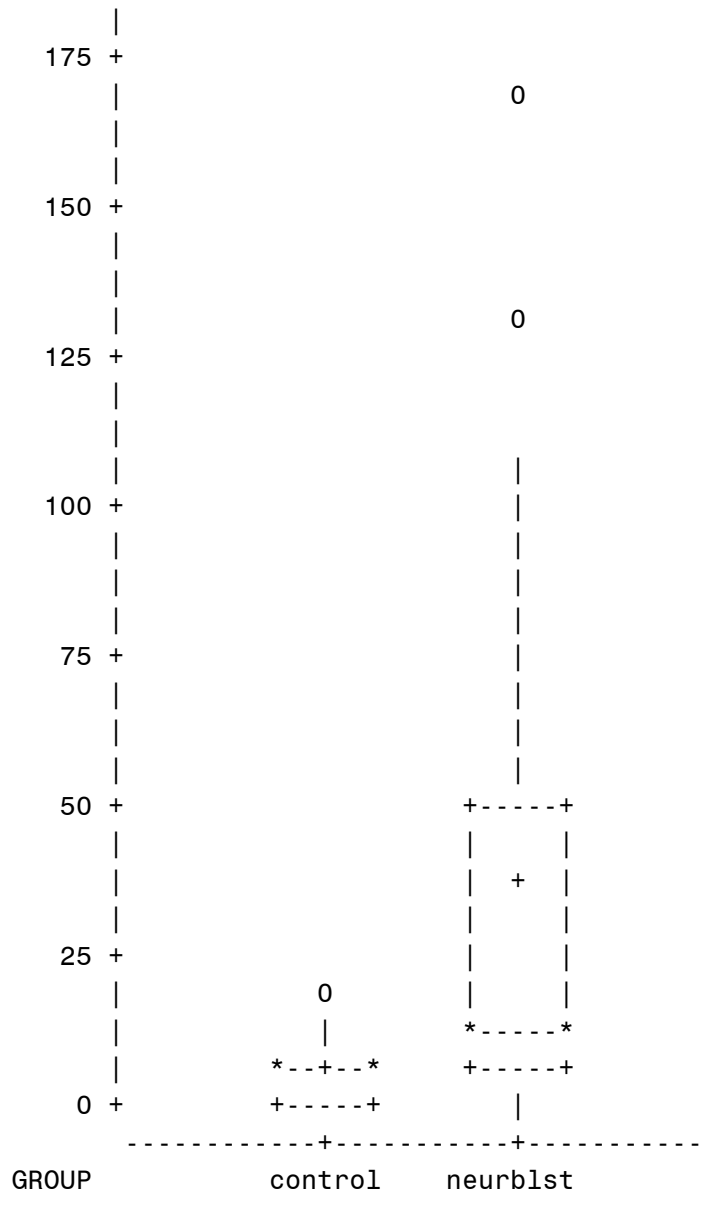
---------- GROUP=neurblst ----------

The UNIVARIATE Procedure
Variable: LNDOPA



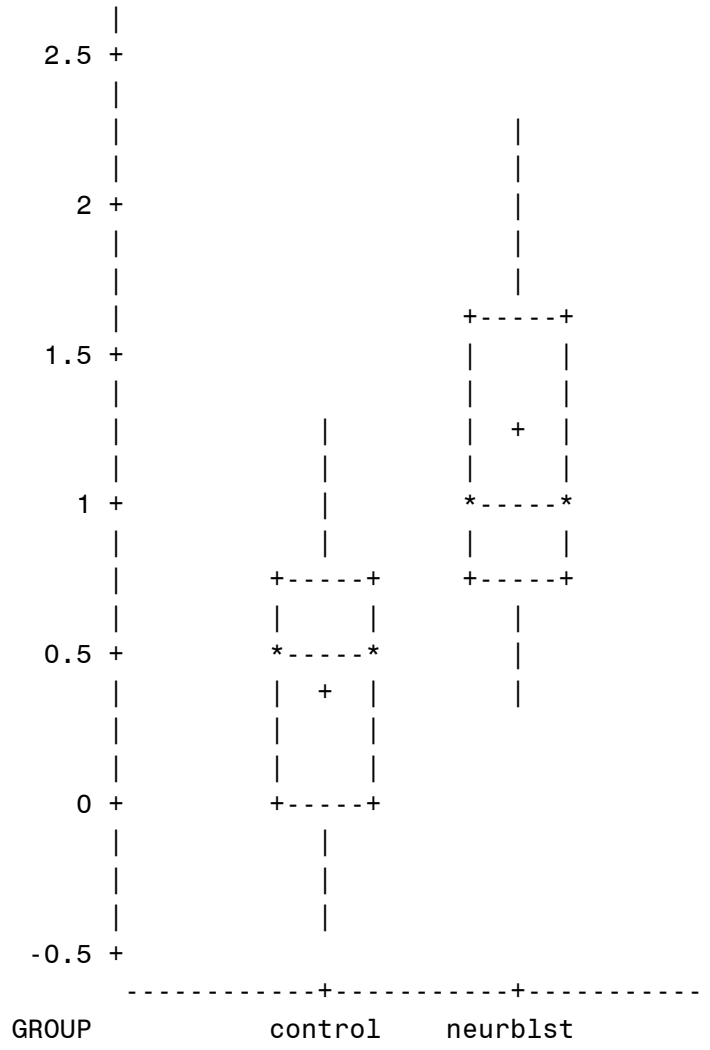
The UNIVARIATE Procedure
Variable: DOPA

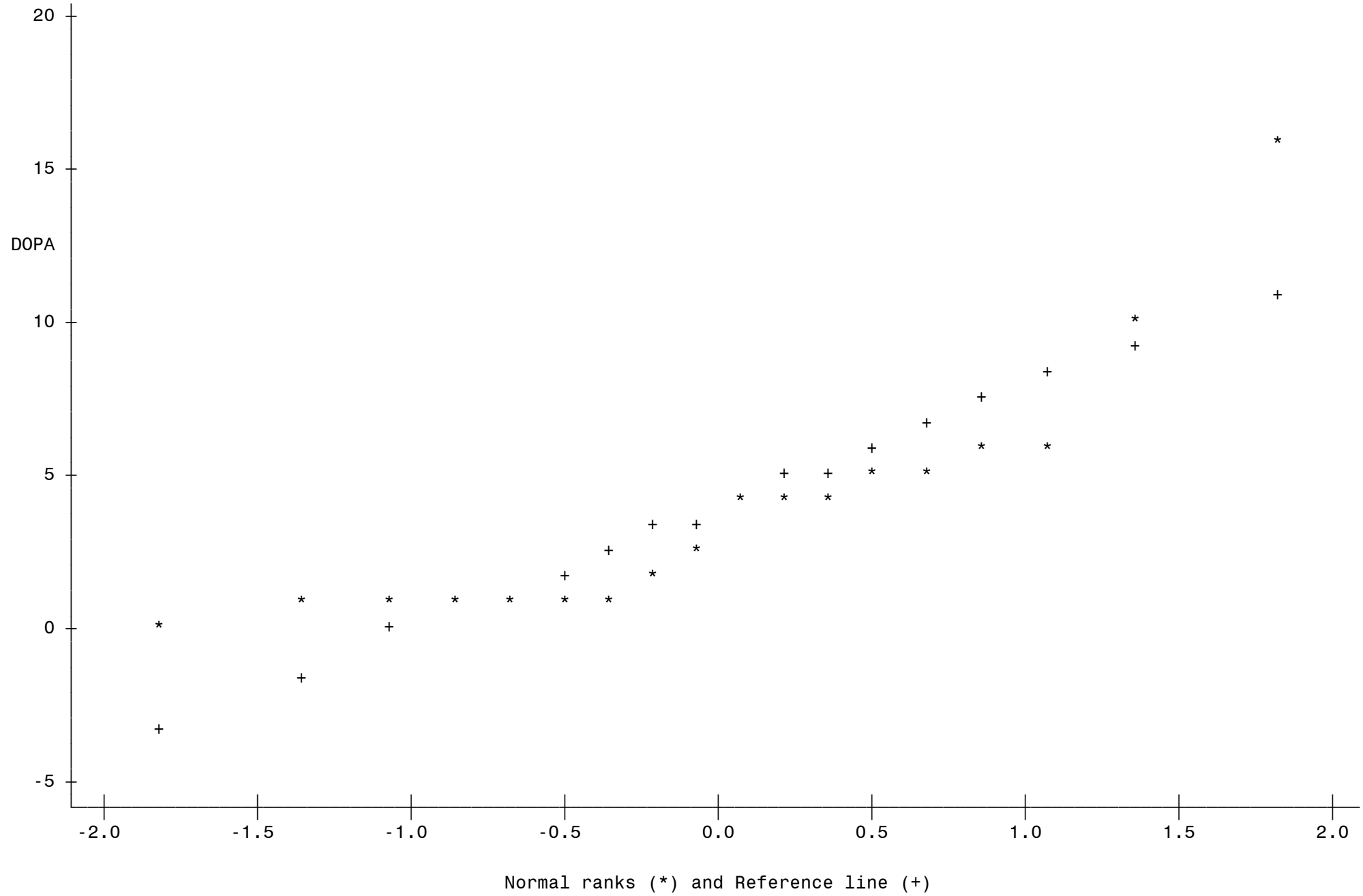
Schematic Plots



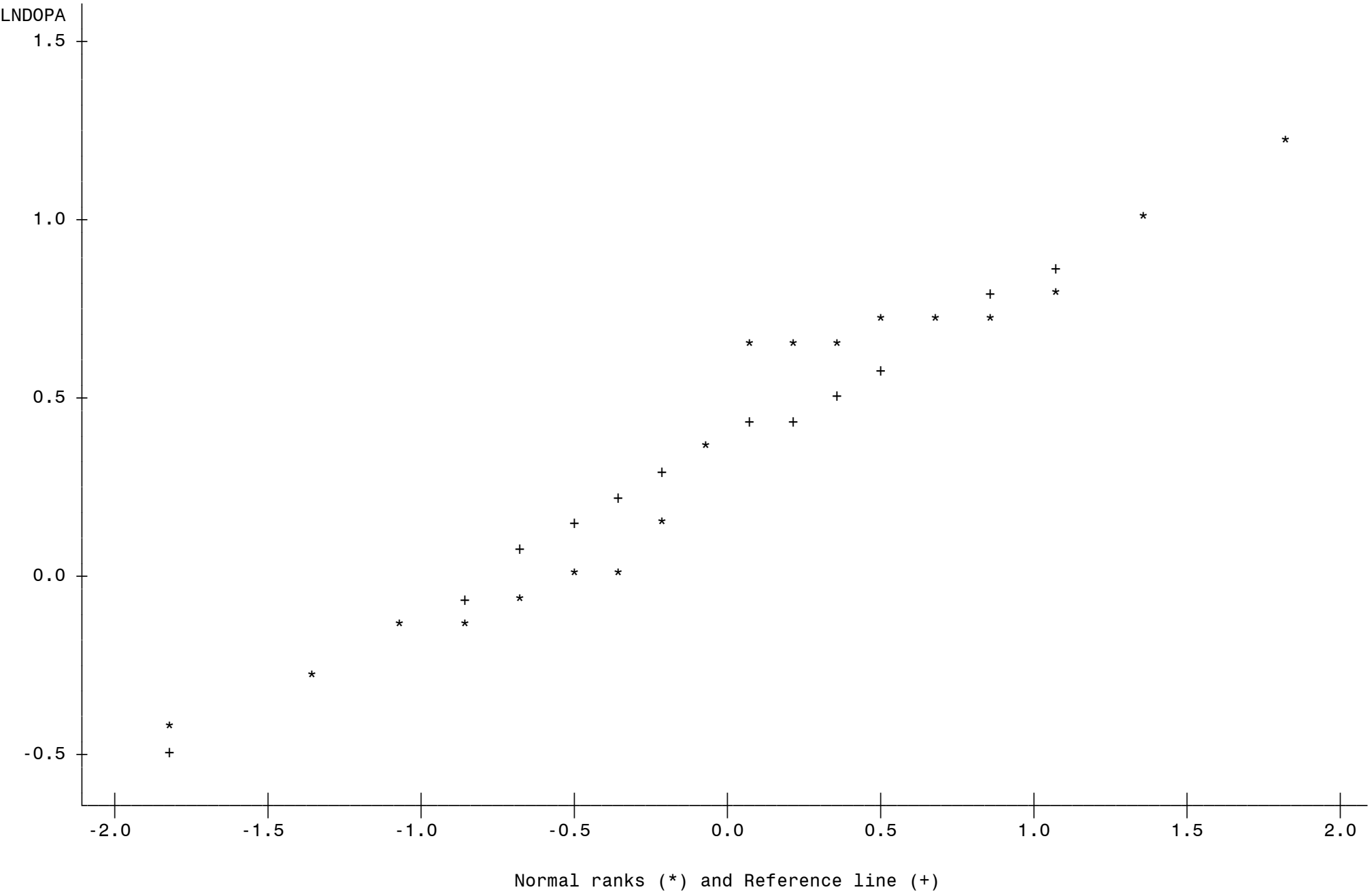
The UNIVARIATE Procedure
Variable: LNDOPA

Schematic Plots

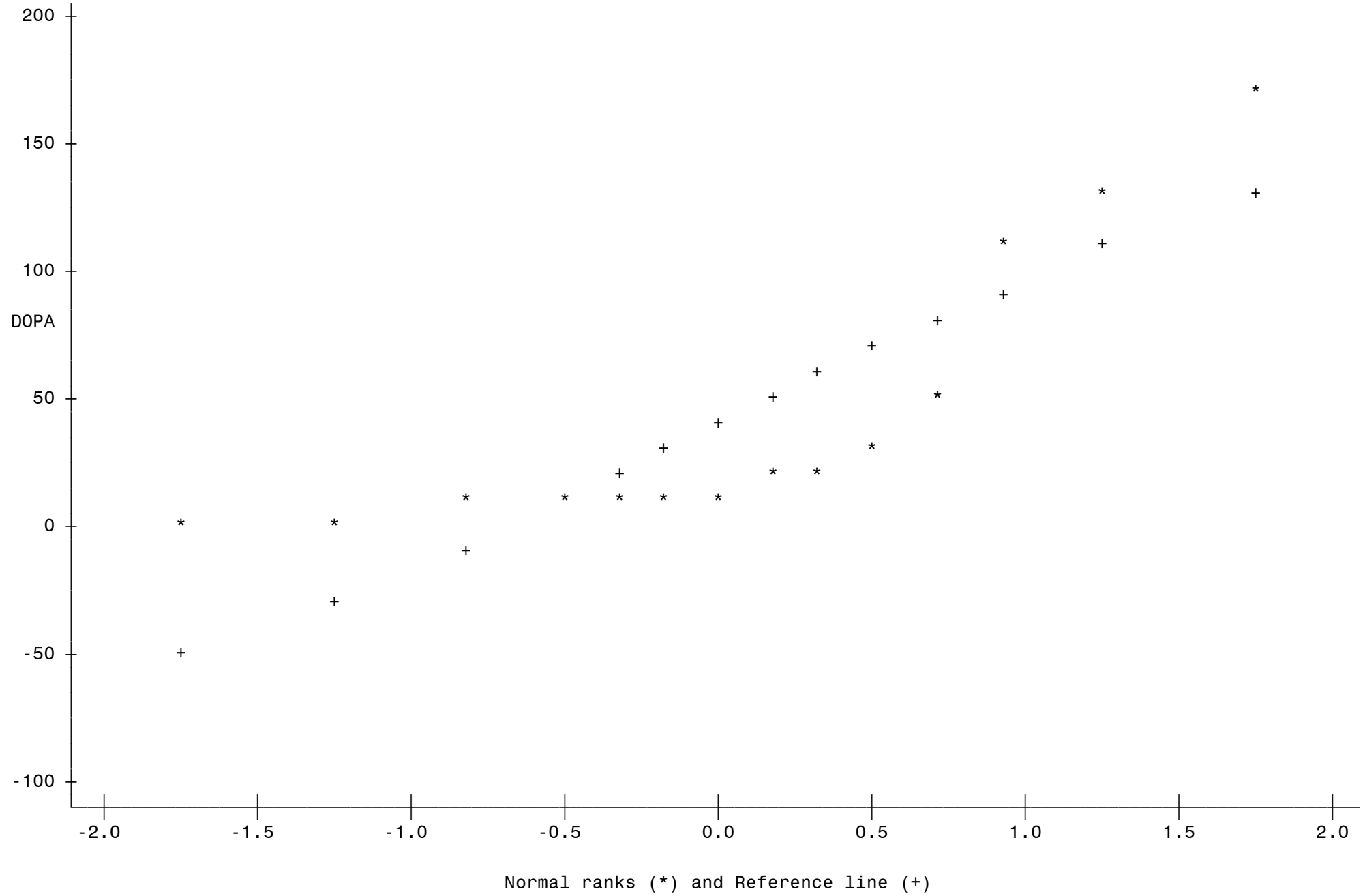




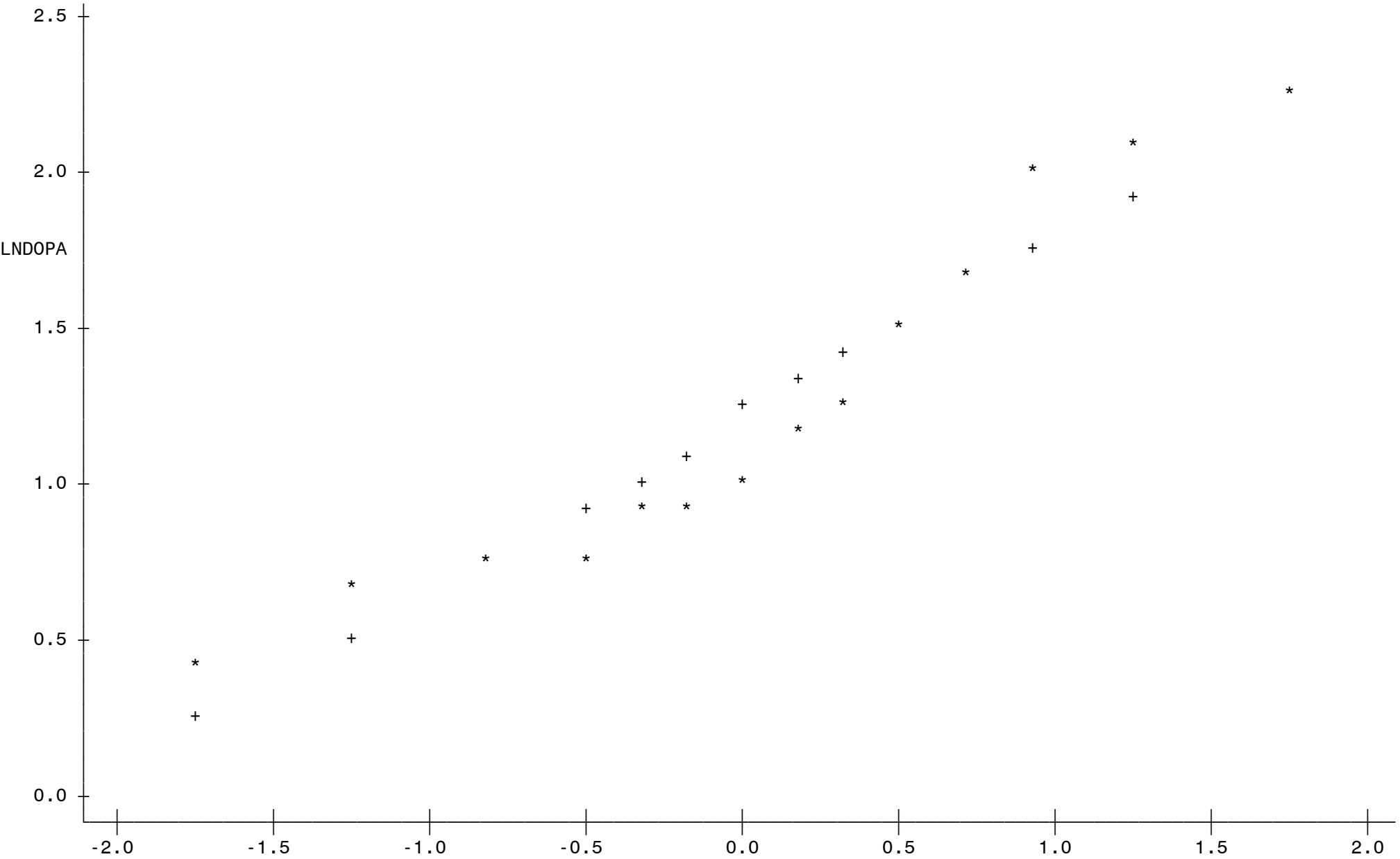
NOTE: 3 obs hidden.



NOTE: 6 obs hidden.



NOTE: 3 obs hidden.



NOTE: 6 obs hidden.

The TTEST Procedure

Statistics

Variable	GROUP	N	Lower CL Mean	Mean	Upper CL Mean	Lower CL Std Dev	Std Dev	Upper CL Std Dev	Std Err	Minimum	Maximum
DOPA	control	18	1.8793	3.8733	5.8673	3.0089	4.0097	6.0112	0.9451	0.388	16.036
DOPA	neurblst	15	8.7977	38.587	68.376	39.383	53.792	84.835	13.889	2.4	170
DOPA	Diff (1-2)		-60.58	-34.71	-8.851	29.079	36.271	48.222	12.68		
LNDOPA	control	18	0.125	0.3631	0.6012	0.3593	0.4788	0.7177	0.1128	-0.411	1.2051
LNDOPA	neurblst	15	0.8991	1.218	1.5368	0.4215	0.5757	0.908	0.1487	0.3802	2.2305
LNDOPA	Diff (1-2)		-1.229	-0.855	-0.481	0.4207	0.5248	0.6977	0.1835		

T-Tests

Variable	Method	Variances	DF	t Value	Pr > |t|
DOPA	Pooled	Equal	31	-2.74	0.0102
DOPA	Satterthwaite	Unequal	14.1	-2.49	0.0257
LNDOPA	Pooled	Equal	31	-4.66	<.0001
LNDOPA	Satterthwaite	Unequal	27.3	-4.58	<.0001

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
DOPA	Folded F	14	17	179.97	<.0001
LNDOPA	Folded F	14	17	1.45	0.4655

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable DOPA
Classified by Variable GROUP

GROUP	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
control	18	201.0	306.0	27.656322	11.166667
neurblst	15	360.0	255.0	27.656322	24.000000

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	360.0000
Normal Approximation	
Z	3.7785
One-Sided Pr > Z	<.0001
Two-Sided Pr > |Z|	0.0002
t Approximation	
One-Sided Pr > Z	0.0003
Two-Sided Pr > |Z|	0.0006

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	14.4142
DF	1
Pr > Chi-Square	0.0001

Obs	DOPA	rankdopa
1	16.036	27.0
2	0.751	4.0
3	4.133	12.0
4	0.925	6.0
5	5.605	17.0
6	0.710	3.0
7	1.495	8.0
8	5.211	15.0
9	9.895	24.0
10	0.917	5.0
11	4.365	13.0
12	2.349	9.0
13	0.943	7.0
14	0.388	1.0
15	0.536	2.0
16	5.347	16.0
17	6.063	21.0
18	4.051	11.0
19	48.000	30.0
20	133.000	32.0
21	34.000	29.0
22	109.000	31.0
23	4.500	14.0
24	170.000	33.0
25	10.300	25.0
26	8.500	22.0
27	6.000	20.0
28	17.000	28.0
29	9.000	23.0
30	15.300	26.0
31	2.400	10.0
32	5.900	18.5
33	5.900	18.5

The TTEST Procedure

Statistics

Variable	GROUP	N	Lower CL Mean	Mean	Upper CL Mean	Lower CL Std Dev	Std Dev	Upper CL Std Dev	Std Err	Minimum	Maximum
rankdopa	control	18	7.3708	11.167	14.963	5.7278	7.6331	11.443	1.7991	1	27
rankdopa	neurblst	15	20.216	24	27.784	5.002	6.8322	10.775	1.7641	10	33
rankdopa	Diff (1-2)		-18.03	-12.83	-7.641	5.8383	7.2823	9.6817	2.5459		

T-Tests

Variable	Method	Variances	DF	t Value	Pr > |t|
rankdopa	Pooled	Equal	31	-5.04	<.0001
rankdopa	Satterthwaite	Unequal	30.8	-5.09	<.0001

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
rankdopa	Folded F	17	14	1.25	0.6826

PROC UNIVARIATE assessment of normality
and with paired t-test, and Wilcoxon signed rank test

The UNIVARIATE Procedure
Variable: DIFF

Moments

N	15	Sum Weights	15
Mean	7.93333333	Sum Observations	119
Std Deviation	9.93167132	Variance	98.6380952
Skewness	-0.0460032	Kurtosis	0.35032791
Uncorrected SS	2325	Corrected SS	1380.93333
Coeff Variation	125.189134	Std Error Mean	2.56434651

Basic Statistical Measures

Location		Variability	
Mean	7.933333	Std Deviation	9.93167
Median	7.000000	Variance	98.63810
Mode	.	Range	38.00000
		Interquartile Range	11.00000

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	3.093706	Pr > |t|	0.0079
Sign	M	5.5	Pr >= |M|	0.0074
Signed Rank	S	46	Pr >= |S|	0.0065

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.967972	Pr < W	0.8270

PROC UNIVARIATE assessment of normality
and with paired t-test, and Wilcoxon signed rank test

The UNIVARIATE Procedure
Variable: DIFF

Tests for Normality

Test	--Statistic---		-----p Value------	
Cramer-von Mises	W-Sq	0.035409	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.250215	Pr > A-Sq	>0.2500

Quantiles (Definition 5)

Quantile	Estimate
100% Max	25
99%	25
95%	25
90%	23
75% Q3	13
50% Median	7
25% Q1	2
10%	-2
5%	-13
1%	-13
0% Min	-13

Extreme Observations

----Lowest----		----Highest---	
Value	Obs	Value	Obs
-13	6	12	5
-2	2	13	11
1	10	20	13

PROC UNIVARIATE assessment of normality
and with paired t-test, and Wilcoxon signed rank test

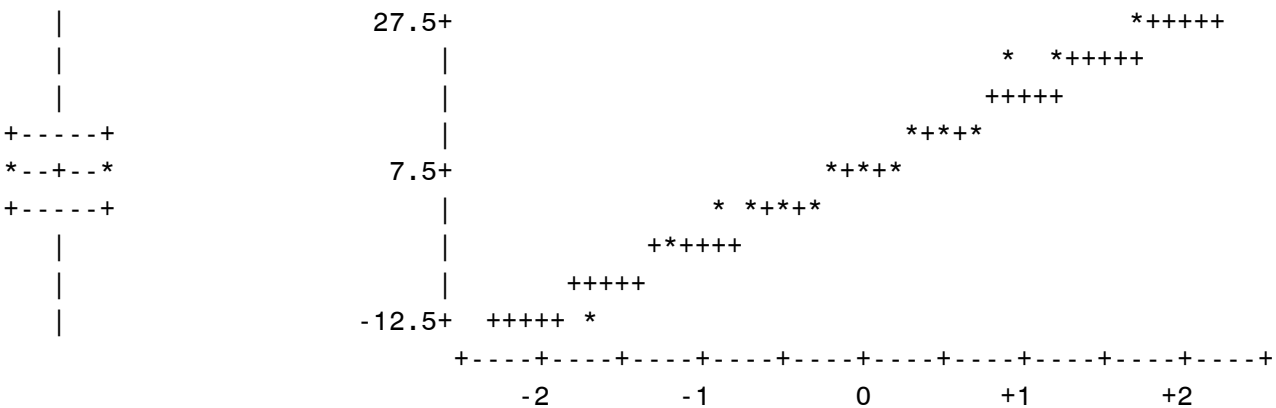
The UNIVARIATE Procedure
Variable: DIFF

Extreme Observations

----Lowest----		----Highest---	
Value	Obs	Value	Obs
3	15	25	3

Stem	Leaf	#	Boxplot
2	5	1	
2	03	2	
1			
1	023	3	
0	579	3	
0	1234	4	
-0	2	1	
-0			
-1	3	1	

Multiply Stem.Leaf by 10**+1



paired t-test conducted using PROC MEANS

The MEANS Procedure

Analysis Variable : DIFF

N	Sum	Mean	Std Dev	Std Error	t Value	Pr > |t|
15	119.0000000	7.9333333	9.9316713	2.5643465	3.09	0.0079

The FREQ Procedure

Table of grade by race

grade race

Frequency Expected Percent Row Pct Col Pct	black	white	Total
1	18	240	258
	36.314	221.69	
	2.95	39.28	42.23
	6.98	93.02	
	20.93	45.71	
2	36	173	209
	29.417	179.58	
	5.89	28.31	34.21
	17.22	82.78	
	41.86	32.95	
3	32	112	144
	20.268	123.73	
	5.24	18.33	23.57
	22.22	77.78	
	37.21	21.33	
Total	86	525	611
	14.08	85.92	100.00

The FREQ Procedure

Statistics for Table of grade by race

Statistic	DF	Value	Prob
Chi-Square	2	20.3663	<.0001
Likelihood Ratio Chi-Square	2	21.3666	<.0001
Mantel-Haenszel Chi-Square	1	19.5733	<.0001
Phi Coefficient		0.1826	
Contingency Coefficient		0.1796	
Cramer's V		0.1826	

Statistic	Value	ASE
Gamma	-0.4092	0.0780
Kendall's Tau-b	-0.1716	0.0360
Stuart's Tau-c	-0.1360	0.0302
Somers' D C|R	-0.1048	0.0232
Somers' D R|C	-0.2812	0.0578
Pearson Correlation	-0.1791	0.0389
Spearman Correlation	-0.1814	0.0380
Lambda Asymmetric C|R	0.0000	0.0000
Lambda Asymmetric R|C	0.0510	0.0203
Lambda Symmetric	0.0410	0.0162
Uncertainty Coefficient C|R	0.0430	0.0175
Uncertainty Coefficient R|C	0.0163	0.0068
Uncertainty Coefficient Symmetric	0.0237	0.0098

Sample Size = 611