```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=EL
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:44:37
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=EL /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
EL	Tocotrienol	122	45.7574	24.26839	2.19716
	Placebo	122	49.6656	26.84781	2.43069

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
EL	Equal variances assumed	1.030	.311	-1.193	242
	Equal variances not assumed			-1.193	239.572

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
EL	Equal variances assumed	.234	-3.90820	3.27654	-10.36238
	Equal variances not assumed	.234	-3.90820	3.27654	-10.36271

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the ...	
		Upper	
EL	Equal variances assumed	2.54599	
	Equal variances not assumed	2.54632	

Independent Samples Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval	
				Lower	Upper
EL	Cohen's d	25.59062	-.153	-.404	.099
	Hedges' correction	25.67027	-.152	-.403	.098
	Glass's delta	26.84781	-.146	-.397	.106

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=EL
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=P
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:49:40
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=P /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
P	Tocotrienol	122	3.5520	12.99330	1.17636
	Placebo	122	2.7069	10.18543	.92215

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
P	Equal variances assumed	1.006	.317	.565	242
	Equal variances not assumed			.565	228.947

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
P	Equal variances assumed	.572	.84508	1.49471	-2.09923
	Equal variances not assumed	.572	.84508	1.49471	-2.10007

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the ...	
		Upper	
P	Equal variances assumed	3.78939	
	Equal variances not assumed	3.79024	

Independent Samples Effect Sizes

				95% Confidence Interval	
		Standardizer[a]	Point Estimate	Lower	Upper
P	Cohen's d	11.67409	.072	-.179	.323
	Hedges' correction	11.71043	.072	-.178	.322
	Glass's delta	10.18543	.083	-.168	.334

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=ER
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:50:40
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=ER /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
ER	Tocotrienol	120	2.2923	7.16741	.65429
	Placebo	121	2.1074	7.90889	.71899

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
ER	Equal variances assumed	.047	.829	.190	239
	Equal variances not assumed			.190	237.087

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
ER	Equal variances assumed	.849	.18489	.97253	-1.73093
	Equal variances not assumed	.849	.18489	.97213	-1.73023

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the ...	
		Upper	
ER	Equal variances assumed	2.10072	
	Equal variances not assumed	2.10002	

Independent Samples Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval	
				Lower	Upper
ER	Cohen's d	7.54881	.024	-.228	.277
	Hedges' correction	7.57260	.024	-.227	.276
	Glass's delta	7.90889	.023	-.229	.276

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=S
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:52:09
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Notes

Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=S /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
S	Tocotrienol	122	11.8890	12.25031	1.10909
	Placebo	122	13.7138	16.56324	1.49956

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
S	Equal variances assumed	6.446	.012	-.978	242
	Equal variances not assumed			-.978	222.890

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
S	Equal variances assumed	.329	-1.82475	1.86515	-5.49875
	Equal variances not assumed	.329	-1.82475	1.86515	-5.50034

Independent Samples Test

		t-test for Equality of Means: 95% Confidence Interval of the ... Upper
S	Equal variances assumed	1.84924
	Equal variances not assumed	1.85083

Independent Samples Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval Lower	95% Confidence Interval Upper
S	Cohen's d	14.56727	-.125	-.376	.126
	Hedges' correction	14.61262	-.125	-.375	.126
	Glass's delta	16.56324	-.110	-.361	.141

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=SI
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:53:00
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=SI /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
SI	Tocotrienol	122	1.3374	5.55203	.50266
	Placebo	122	.7259	3.95913	.35844

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SI	Equal variances assumed	3.996	.047	.990	242
	Equal variances not assumed			.990	218.776

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
SI	Equal variances assumed	.323	.61148	.61737	-.60463
	Equal variances not assumed	.323	.61148	.61737	-.60528

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the ...	
		Upper	
SI	Equal variances assumed	1.82758	
	Equal variances not assumed	1.82823	

Independent Samples Effect Sizes

				95% Confidence Interval	
		Standardizer[a]	Point Estimate	Lower	Upper
SI	Cohen's d	4.82181	.127	-.125	.378
	Hedges' correction	4.83682	.126	-.124	.377
	Glass's delta	3.95913	.154	-.098	.406

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
T-TEST GROUPS=Randomization(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=PA
 /ES DISPLAY(TRUE)
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		17-DEC-2021 11:53:54
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Randomization (1 2) /MISSING=ANALYSIS /VARIABLES=PA /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Group Statistics

	Toco/Placebo	N	Mean	Std. Deviation	Std. Error Mean
PA	Tocotrienol	122	1.7847	7.34200	.66471
	Placebo	122	3.2313	9.01447	.81613

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
PA	Equal variances assumed	6.143	.014	-1.374	242
	Equal variances not assumed			-1.374	232.478

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
PA	Equal variances assumed	.171	-1.44664	1.05258	-3.52002
	Equal variances not assumed	.171	-1.44664	1.05258	-3.52045

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the ...	
		Upper	
PA	Equal variances assumed	.62674	
	Equal variances not assumed	.62717	

Independent Samples Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval	
				Lower	Upper
PA	Cohen's d	8.22088	-.176	-.427	.076
	Hedges' correction	8.24647	-.175	-.426	.075
	Glass's delta	9.01447	-.160	-.412	.092

a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

```
EXAMINE VARIABLES=EL P ER S SI PA
 /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
 /COMPARE GROUPS
 /STATISTICS DESCRIPTIVES
 /CINTERVAL 95
 /MISSING LISTWISE
 /NOTOTAL.
```

Explore

Notes

Output Created		17-DEC-2021 15:42:26
Comments		
Input	Data	C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	250
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=EL P ER S SI PA /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE...
Resources	Processor Time	00:00:09.50
	Elapsed Time	00:00:05.50

[DataSet1] C:\Users\rafmusa\Desktop\FINAL ANALYSIS DATA TOCO\Questionaire\NHP\Data Pre Opt\DATA NHP - PRE OPT.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
EL	241	96.4%	9	3.6%	250	100.0%
P	241	96.4%	9	3.6%	250	100.0%
ER	241	96.4%	9	3.6%	250	100.0%
S	241	96.4%	9	3.6%	250	100.0%
SI	241	96.4%	9	3.6%	250	100.0%
PA	241	96.4%	9	3.6%	250	100.0%

Descriptives

			Statistic	Std. Error
EL	Mean		47.5485	1.65744
	95% Confidence Interval for Mean	Lower Bound	44.2836	
		Upper Bound	50.8135	
	5% Trimmed Mean		47.2762	
	Median		36.8000	
	Variance		662.051	
	Std. Deviation		25.73036	
	Minimum		.00	
	Maximum		100.00	
	Range		100.00	
	Interquartile Range		24.00	
	Skewness		.066	.157
	Kurtosis		.119	.312
P	Mean		3.1684	.75528
	95% Confidence Interval for Mean	Lower Bound	1.6806	
		Upper Bound	4.6562	
	5% Trimmed Mean		.8988	
	Median		.0000	
	Variance		137.478	
	Std. Deviation		11.72509	
	Minimum		.00	
	Maximum		89.51	
	Range		89.51	
	Interquartile Range		.00	

Descriptives

			Statistic	Std. Error
	Skewness		4.984	.157
	Kurtosis		26.928	.312
ER	Mean		2.1994	.48528
	95% Confidence Interval for Mean	Lower Bound	1.2435	
		Upper Bound	3.1554	
	5% Trimmed Mean		.7488	
	Median		.0000	
	Variance		56.756	
	Std. Deviation		7.53363	
	Minimum		.00	
	Maximum		50.57	
	Range		50.57	
	Interquartile Range		.00	
	Skewness		4.197	.157
	Kurtosis		19.225	.312
S	Mean		12.7636	.94328
	95% Confidence Interval for Mean	Lower Bound	10.9054	
		Upper Bound	14.6218	
	5% Trimmed Mean		11.2362	
	Median		12.5700	
	Variance		214.437	
	Std. Deviation		14.64366	
	Minimum		.00	
	Maximum		77.63	
	Range		77.63	
	Interquartile Range		25.19	
	Skewness		1.545	.157
	Kurtosis		3.606	.312
SI	Mean		1.0445	.31243
	95% Confidence Interval for Mean	Lower Bound	.4290	
		Upper Bound	1.6599	
	5% Trimmed Mean		.0000	
	Median		.0000	
	Variance		23.525	
	Std. Deviation		4.85027	

Descriptives

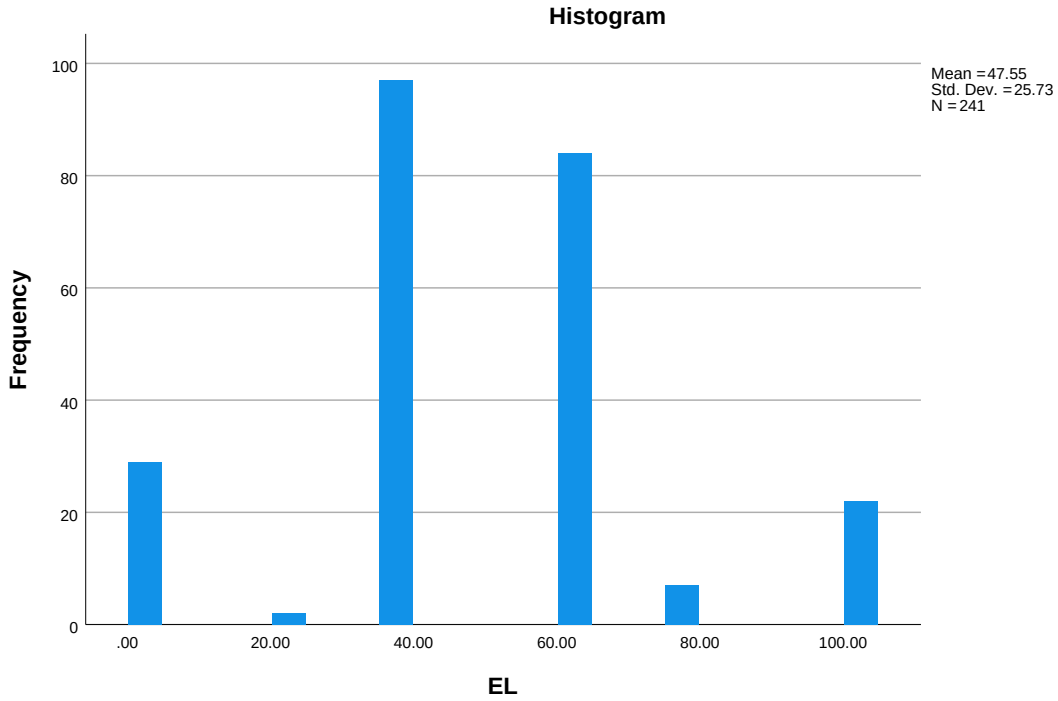
			Statistic	Std. Error
	Minimum		.00	
	Maximum		34.07	
	Range		34.07	
	Interquartile Range		.00	
	Skewness		4.617	.157
	Kurtosis		20.586	.312
PA	Mean		2.5392	.53352
	95% Confidence Interval for Mean	Lower Bound	1.4882	
		Upper Bound	3.5902	
	5% Trimmed Mean		.9471	
	Median		.0000	
	Variance		68.598	
	Std. Deviation		8.28241	
	Minimum		.00	
	Maximum		56.37	
	Range		56.37	
	Interquartile Range		.00	
	Skewness		4.006	.157
	Kurtosis		17.382	.312

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
EL	.209	241	.000	.876	241	.000
P	.478	241	.000	.300	241	.000
ER	.507	241	.000	.331	241	.000
S	.227	241	.000	.785	241	.000
SI	.540	241	.000	.216	241	.000
PA	.500	241	.000	.350	241	.000

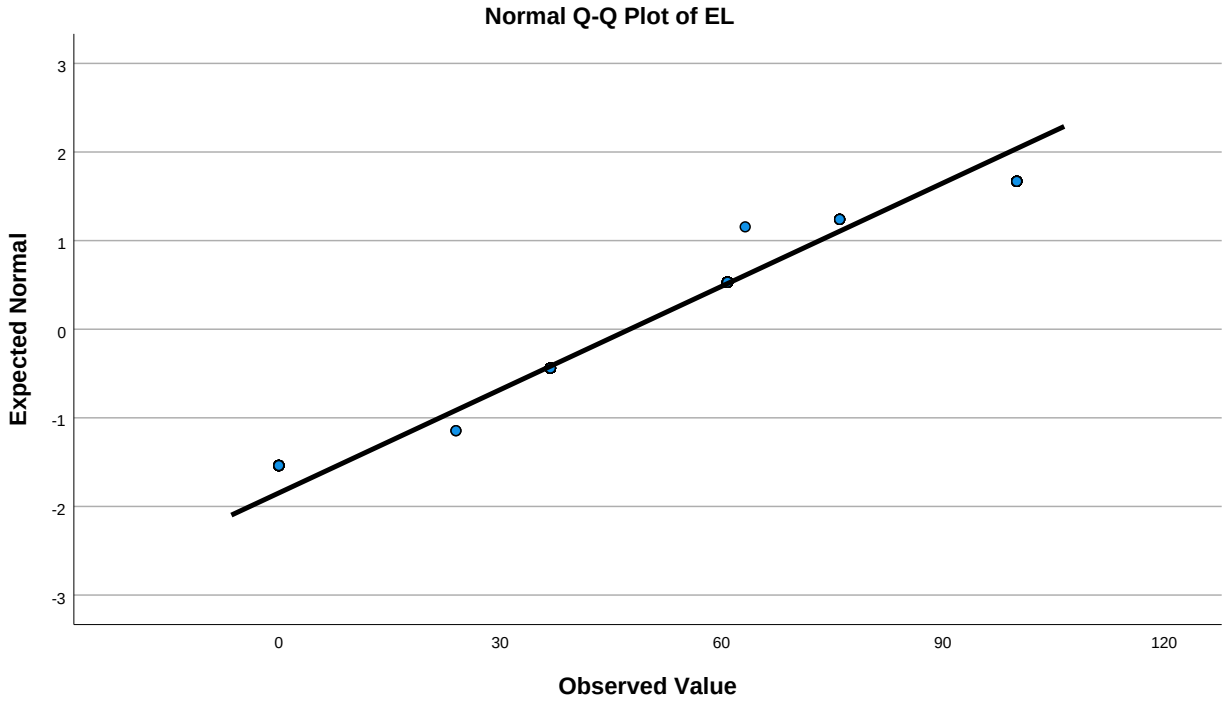
a. Lilliefors Significance Correction

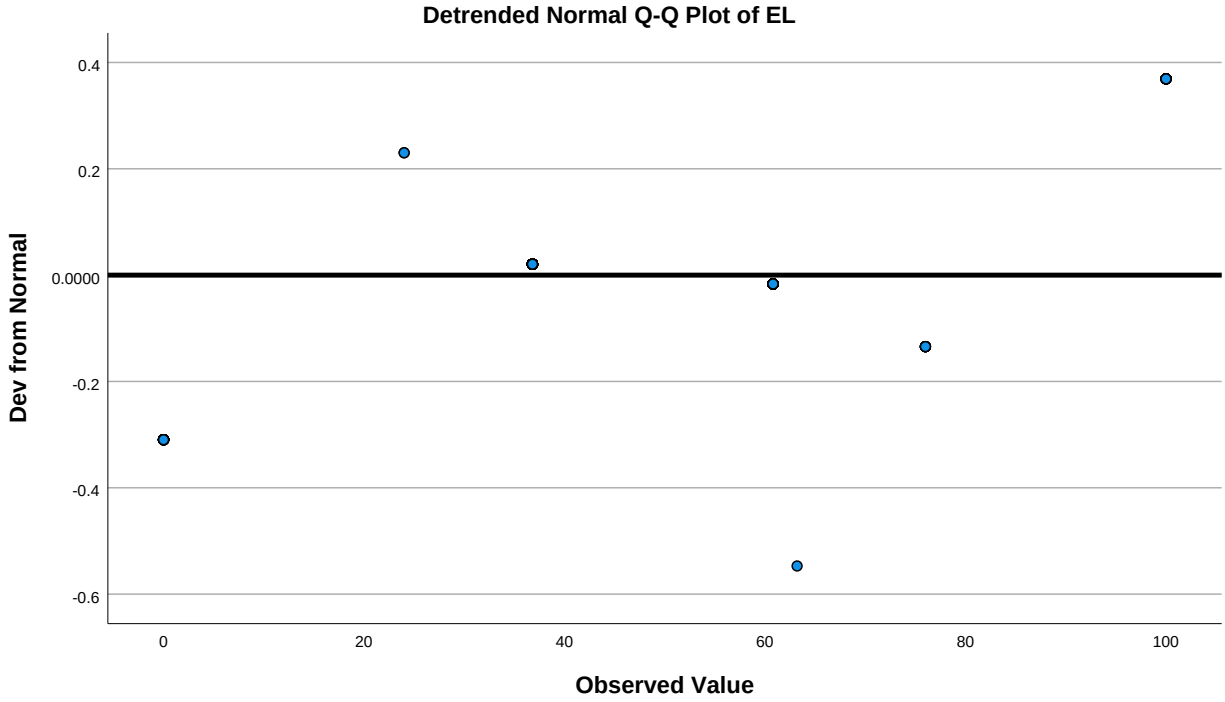
EL

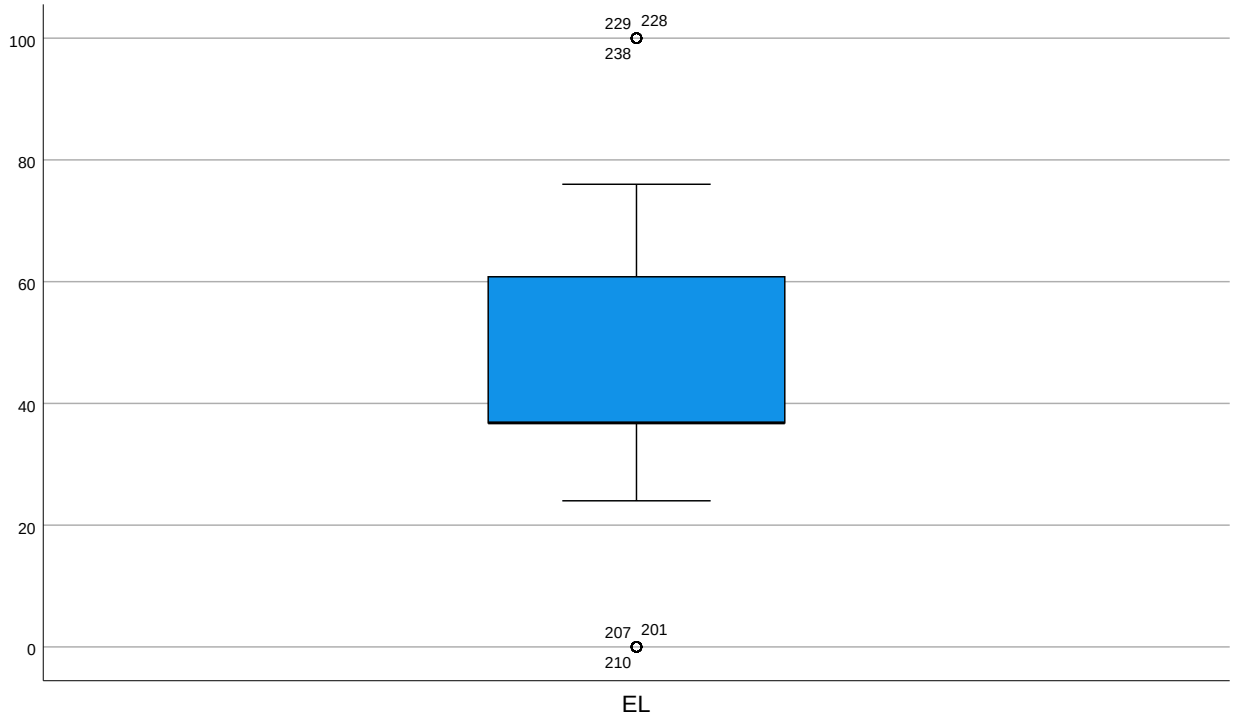


EL Stem-and-Leaf Plot

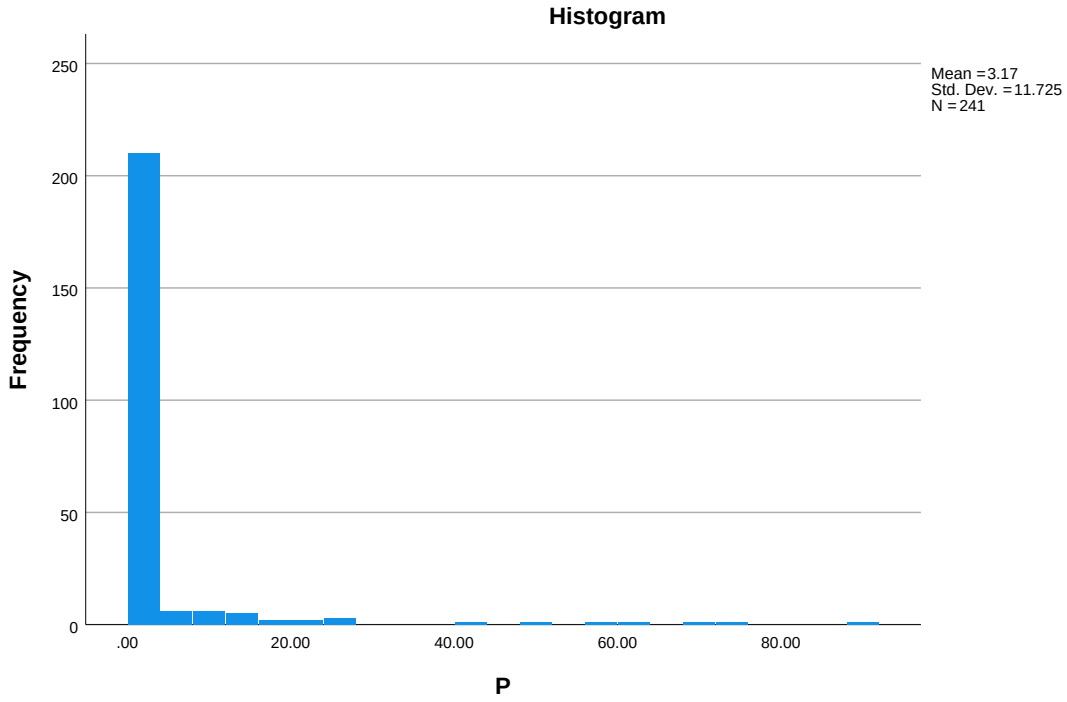
```
 Frequency    Stem &  Leaf

    29.00 Extremes    (=<0)
     2.00        2 .  44
      .00        2 .
      .00        3 .
    97.00        3 .  66666666666666666666666666666666666666666666666666666666666666666666666666666
66666666666666666666666666666
      .00        4 .
      .00        4 .
      .00        5 .
      .00        5 .
    84.00        6 .  00000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000003
      .00        6 .
      .00        7 .
     7.00        7 .  6666666
    22.00 Extremes    (>=100)

 Stem width:     10.00
 Each leaf:        1 case(s)
```


Normal Q-Q Plot of EL
Expected Normal
3
2
1
0
-1
-2
-3
0
30
60
90
120
Observed Value


Detrended Normal Q-Q Plot of EL
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
-0.6
0
20
40
60
80
100
Observed Value



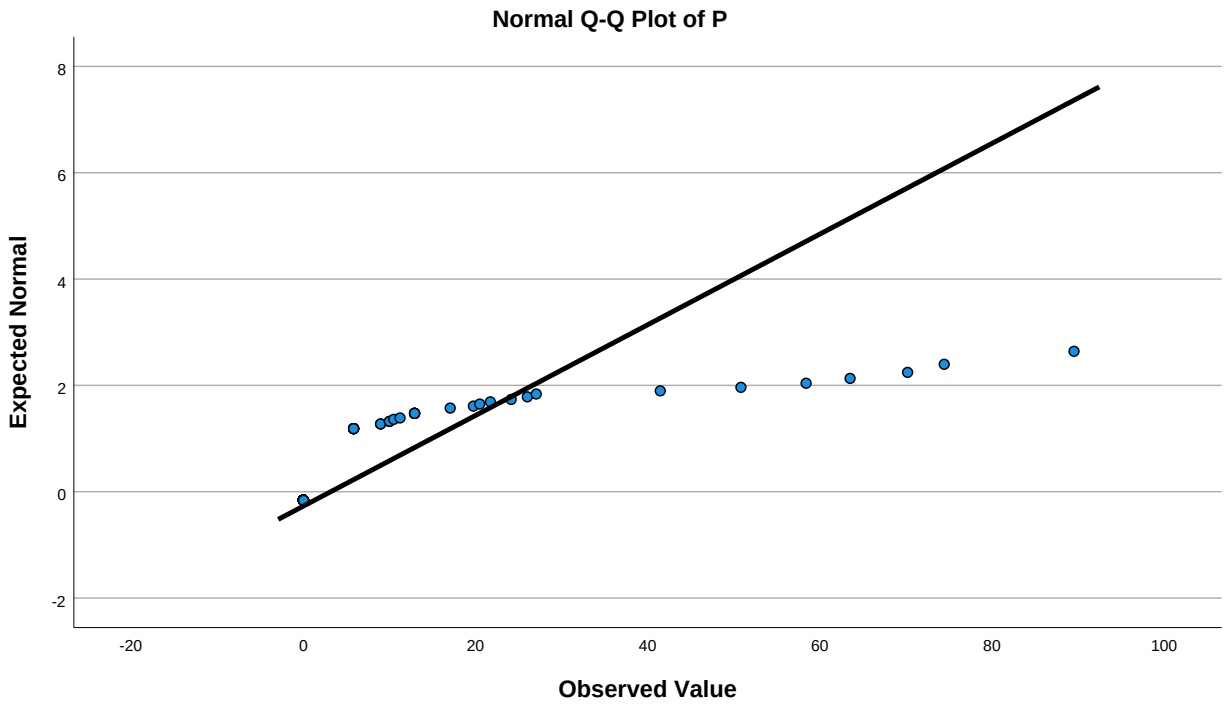
P

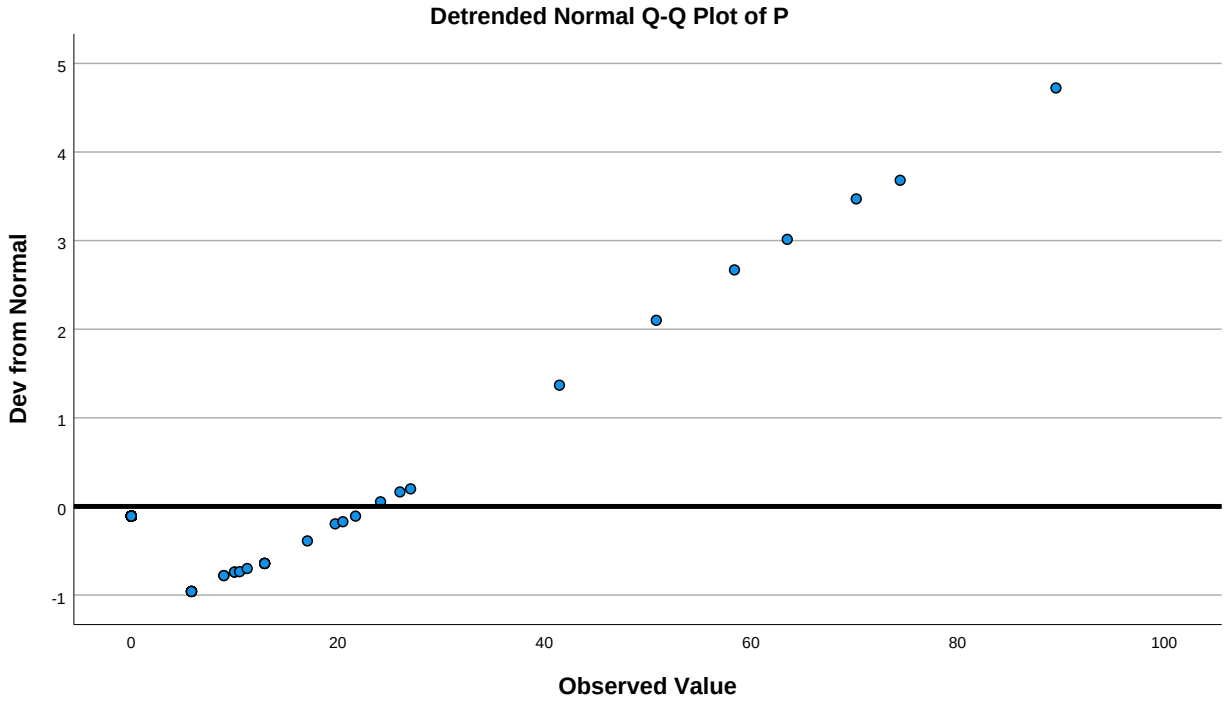


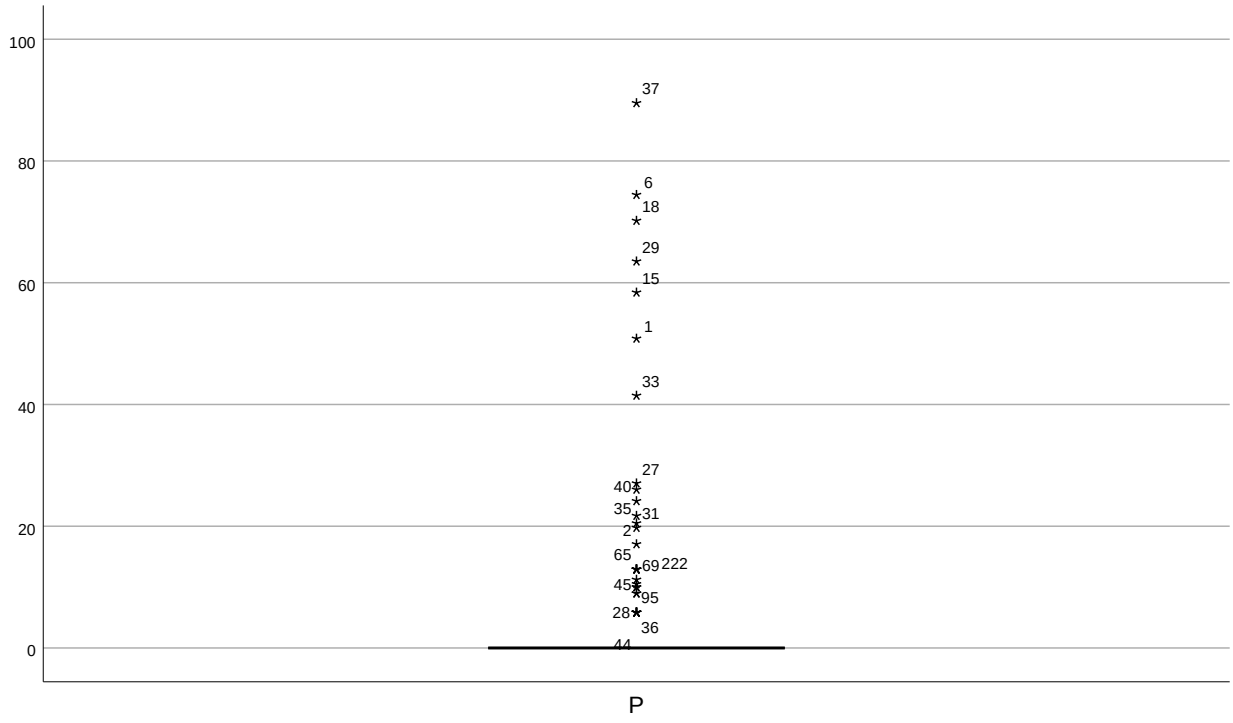
P Stem-and-Leaf Plot

Frequency Stem & Leaf

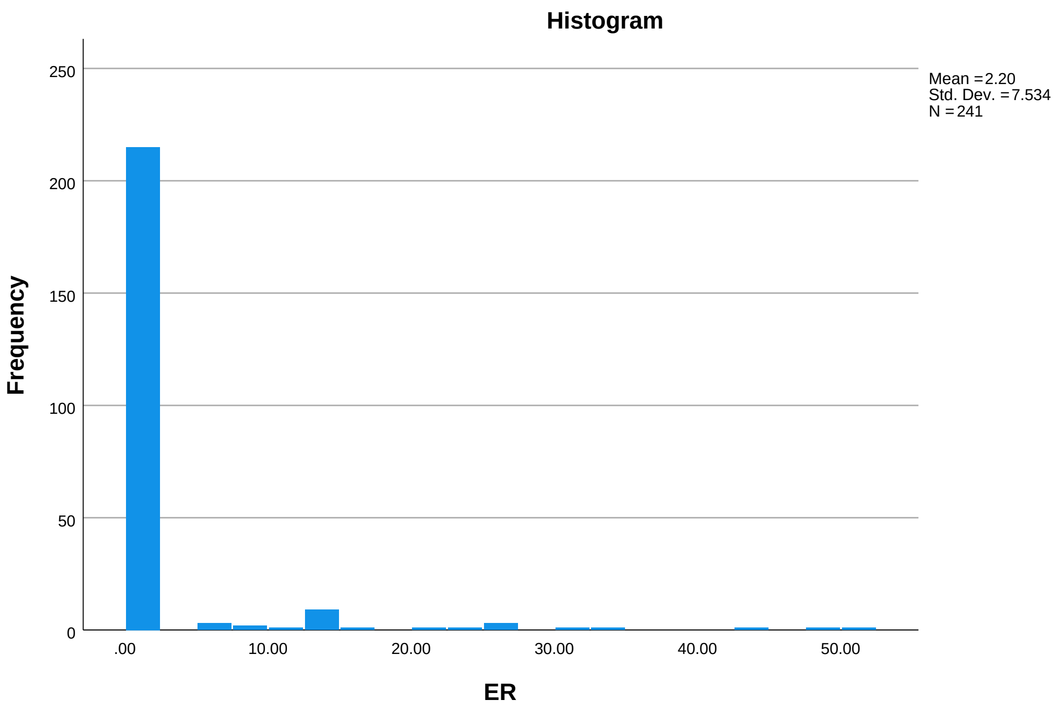
```
   210.00        0 .  00000000000000000000000000000000000000000000000000000000000000000000000000000
000
    31.00 Extremes    (>=6)

 Stem width:     10.00
 Each leaf:        3 case(s)
```



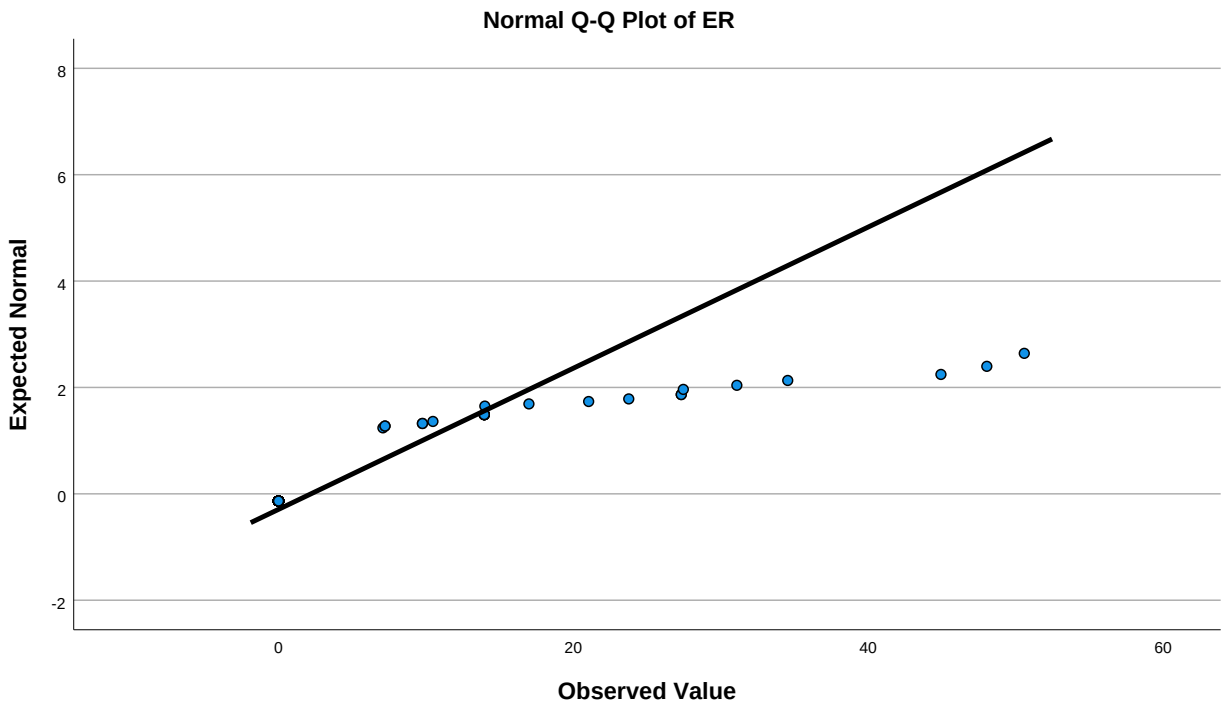

Detrended Normal Q-Q Plot of P
Dev from Normal
5
4
3
2
1
0
-1
0
20
40
60
80
100
Observed Value

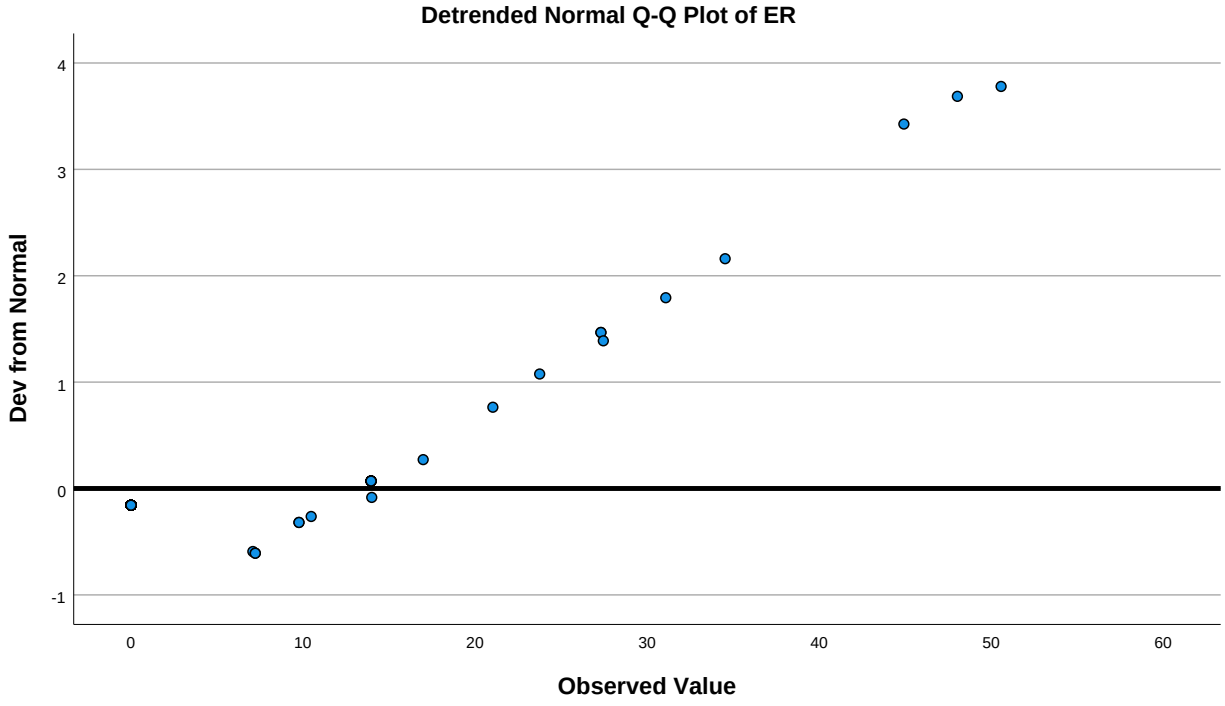

100
80
60
40
20
0
37
6
18
29
15
1
33
27
40
35
31
2
65
69
222
45
95
28
36
44
P

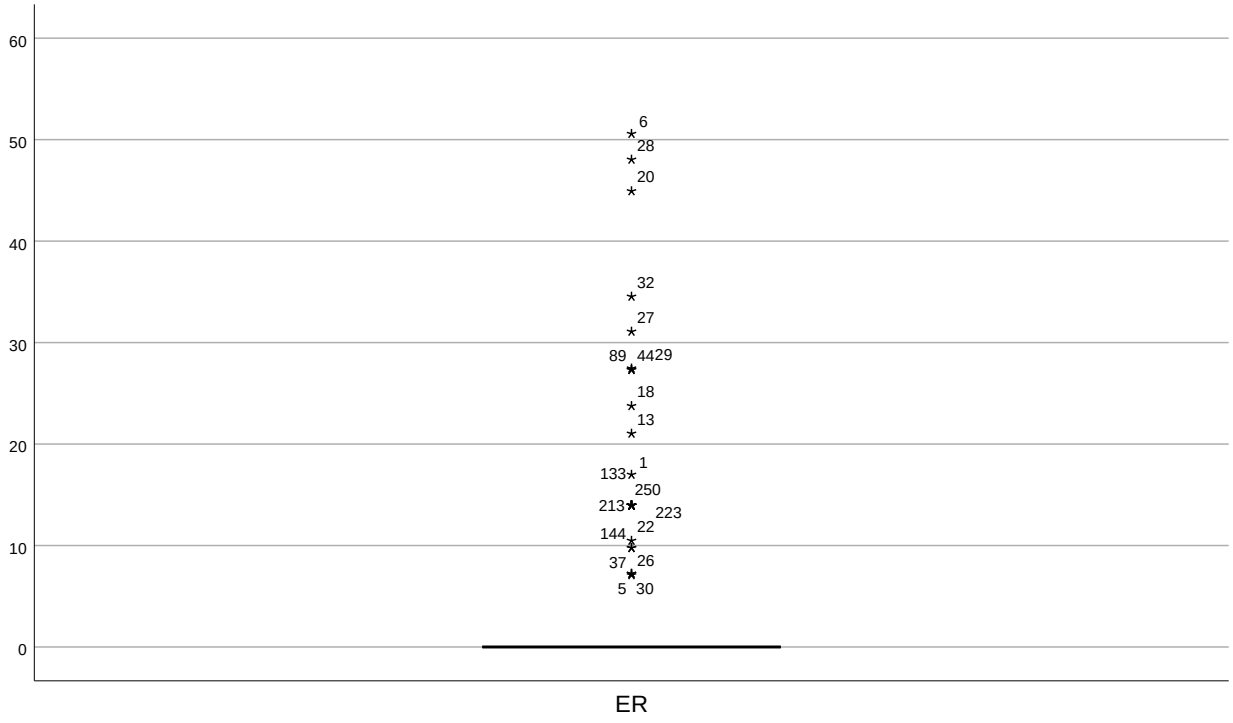
ER



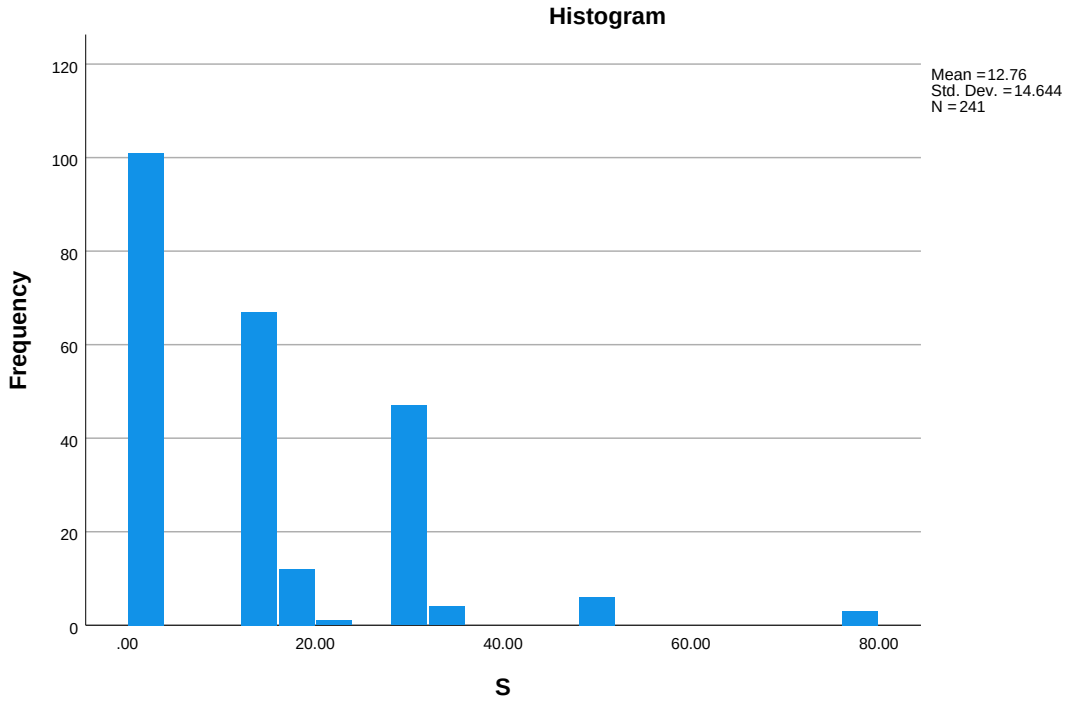

```
ER Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

   215.00        0 .  0000000000000000000000000000000000000000000000000000000000000000000
00000
    26.00 Extremes    (>=7)

 Stem width:     10.00
 Each leaf:        3 case(s)
```


Normal Q-Q Plot of ER
Expected Normal
8
6
4
2
0
-2
0
20
40
60
Observed Value


Detrended Normal Q-Q Plot of ER
Dev from Normal
4
3
2
1
0
-1
0
10
20
30
40
50
60
Observed Value



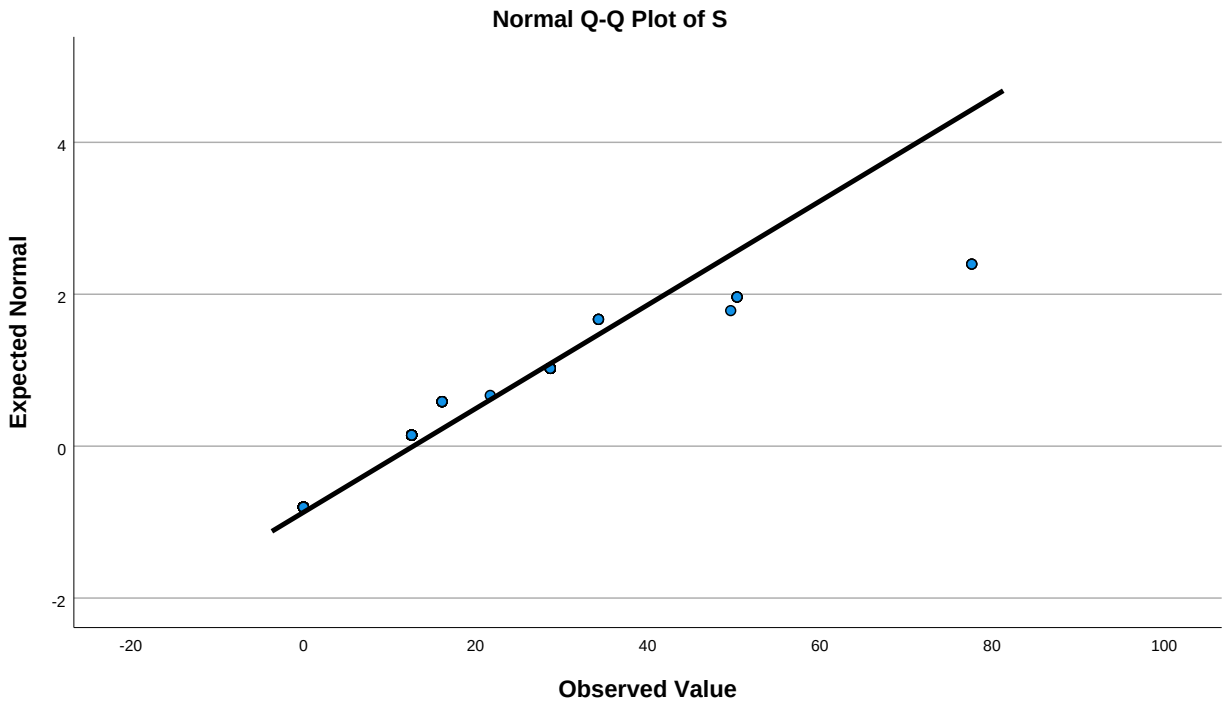
S

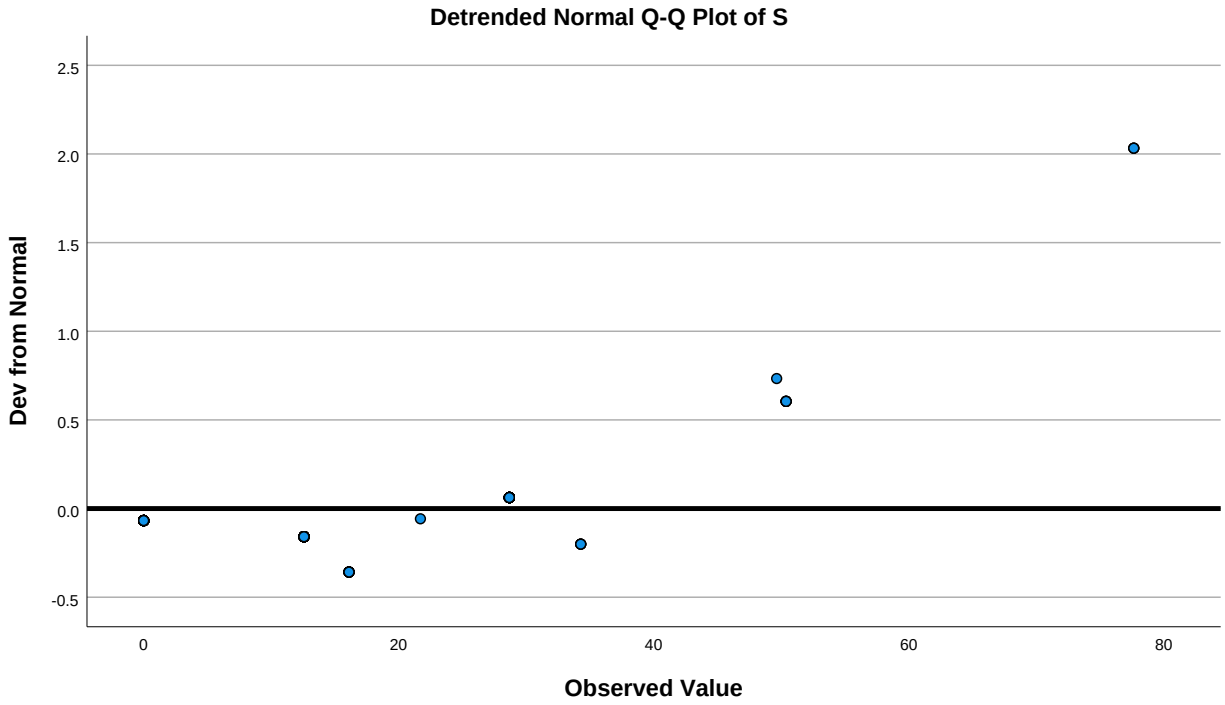


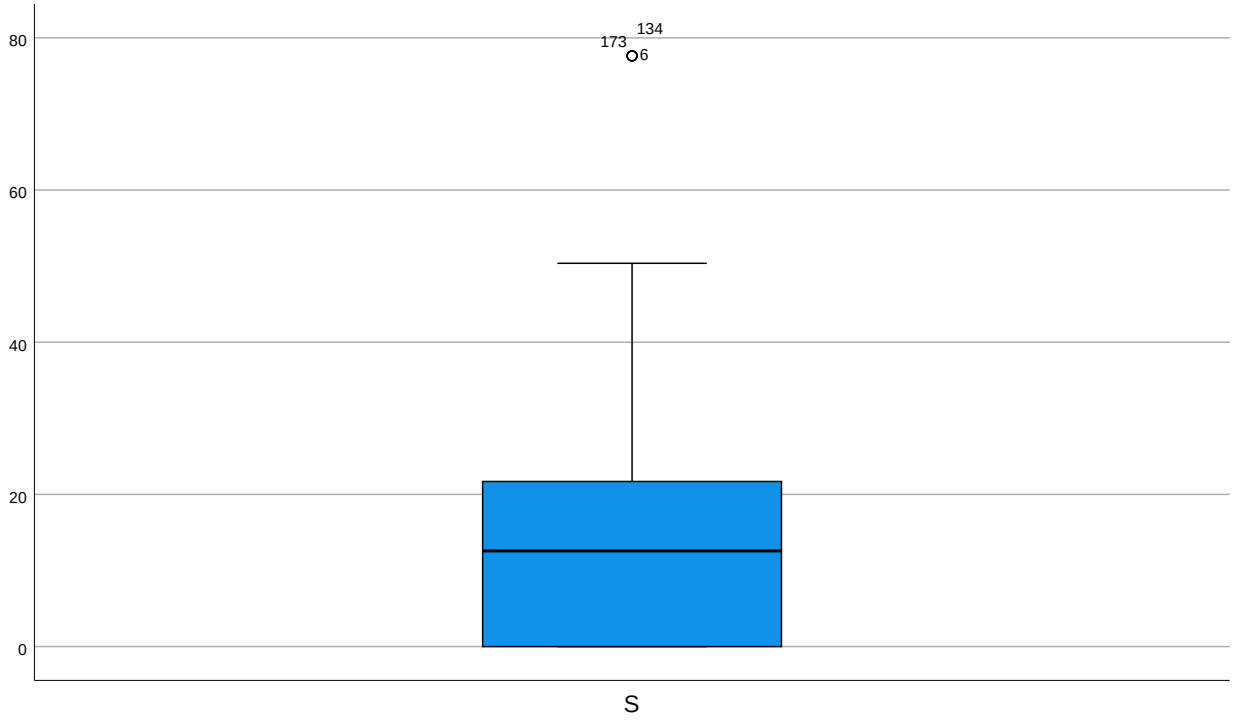
S Stem-and-Leaf Plot

Frequency Stem & Leaf

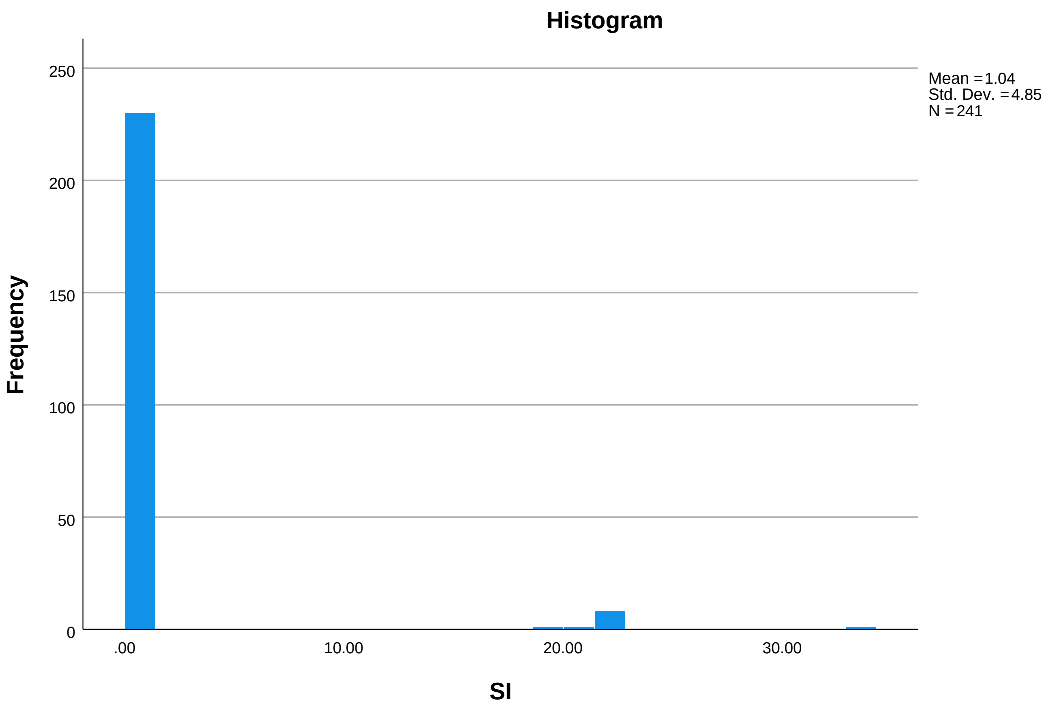
```
   101.00        0 .  00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
      .00        0 .
    67.00        1 .  22222222222222222222222222222222222222222222222222222222222222222222222222222222
    12.00        1 .  666666666666
     1.00        2 .  1
    47.00        2 .  88888888888888888888888888888888888888888888888888
     4.00        3 .  4444
      .00        3 .
      .00        4 .
     1.00        4 .  9
     5.00        5 .  00000
     3.00 Extremes    (>=78)

 Stem width:     10.00
 Each leaf:        1 case(s)
```



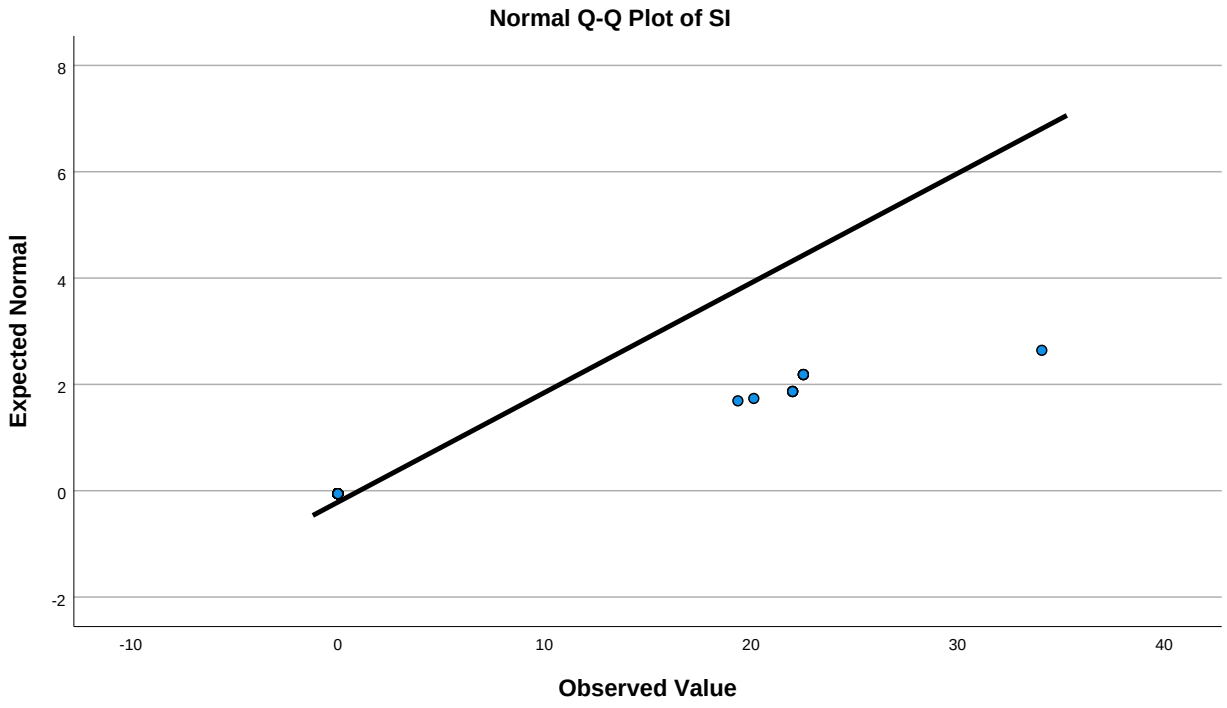

Detrended Normal Q-Q Plot of S
Dev from Normal
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
0
20
40
60
80
Observed Value

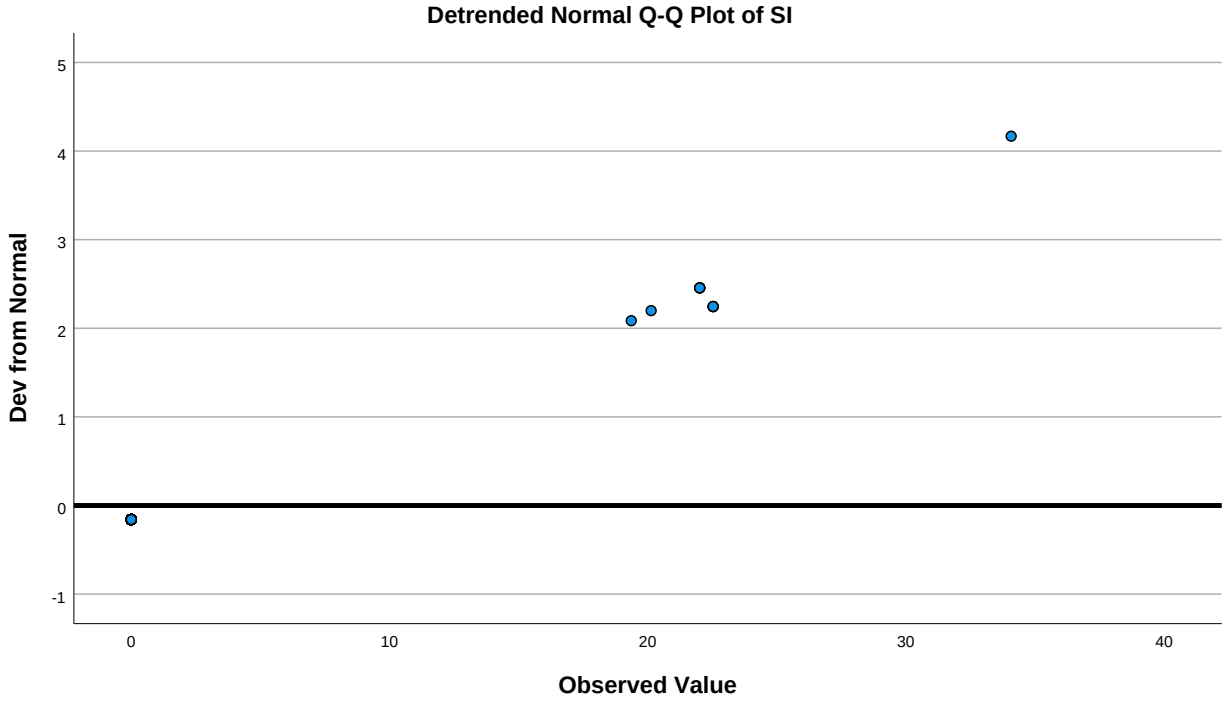

80
60
40
20
0
173
134
6
S

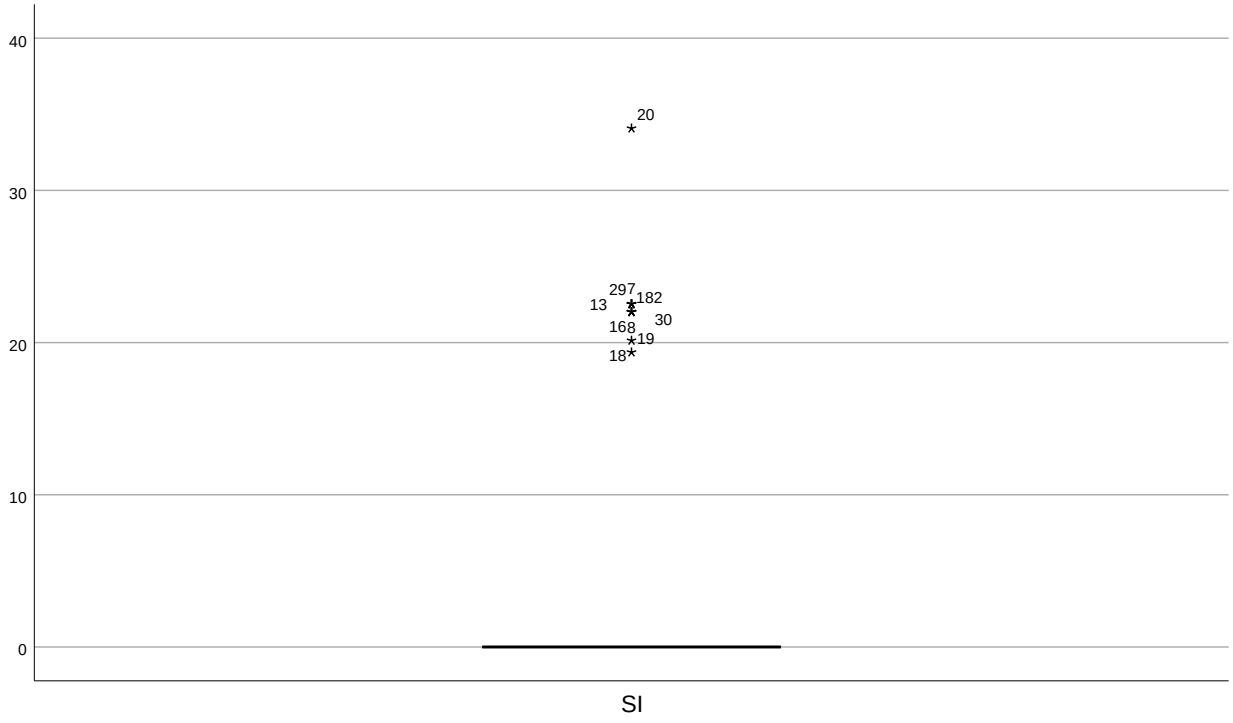
SI



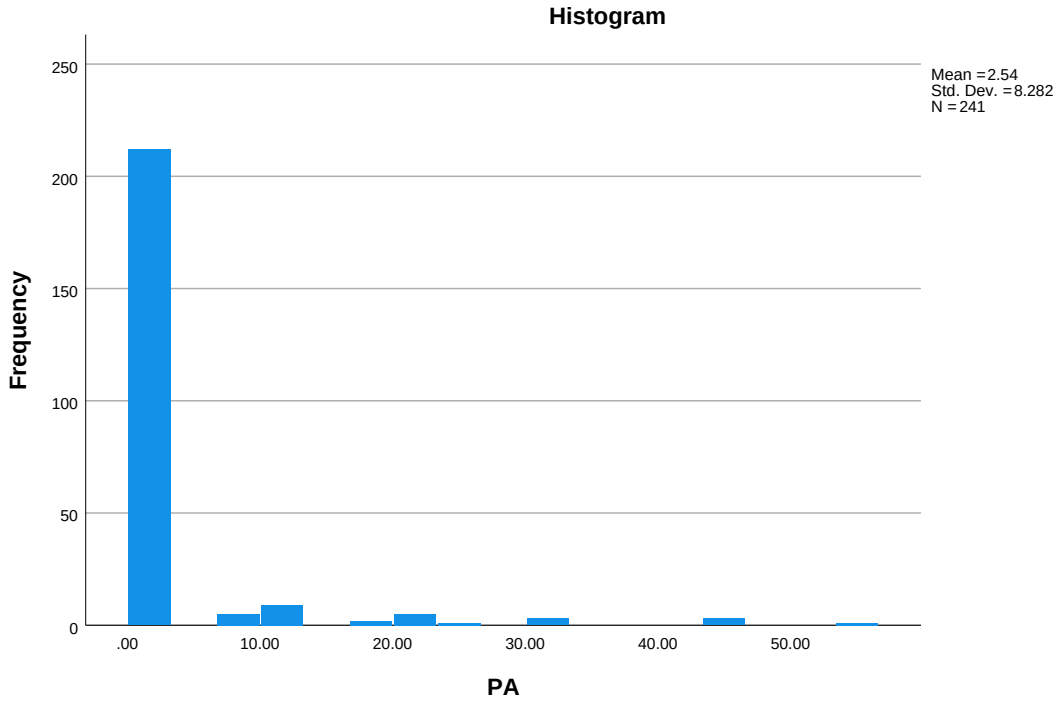

```
SI Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

   230.00        0 .  0000000000000000000000000000000000000000000000000000000000000000000
0000000000
    11.00 Extremes    (>=19)

 Stem width:     10.00
 Each leaf:        3 case(s)
```


Normal Q-Q Plot of SI
Expected Normal
8
6
4
2
0
-2
-10
0
10
20
30
40
Observed Value


Detrended Normal Q-Q Plot of SI
Dev from Normal
5
4
3
2
1
0
-1
0
10
20
30
40
Observed Value



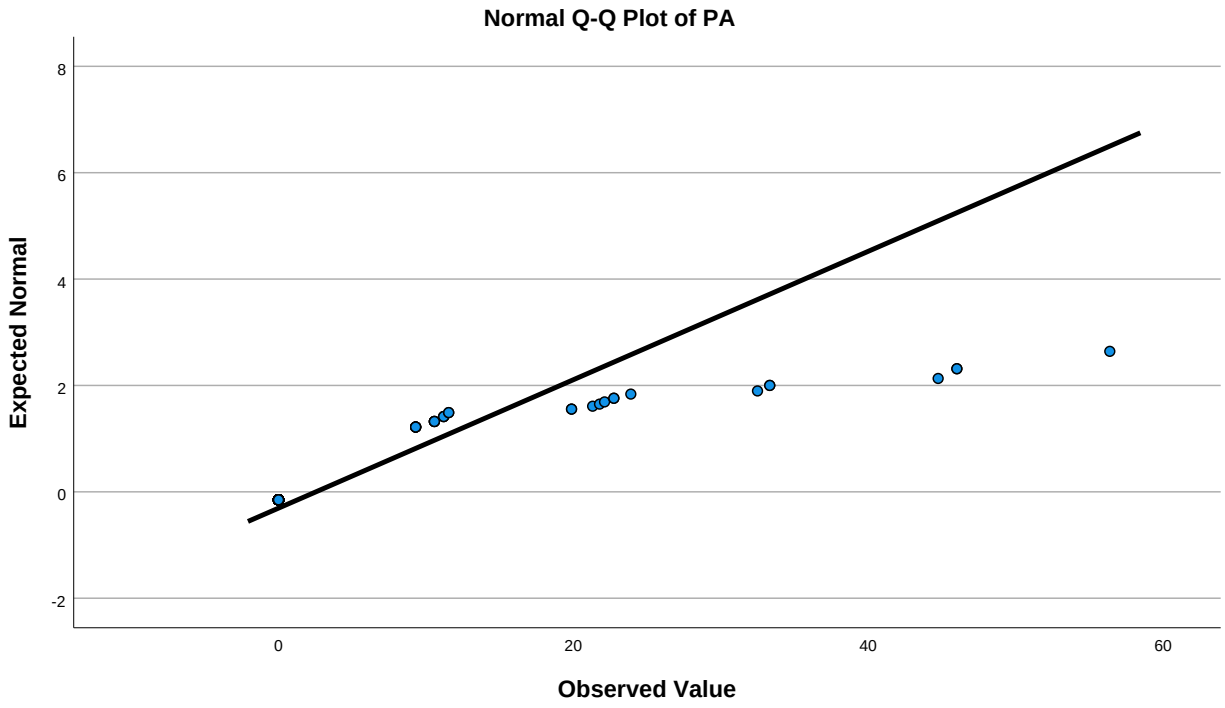
PA

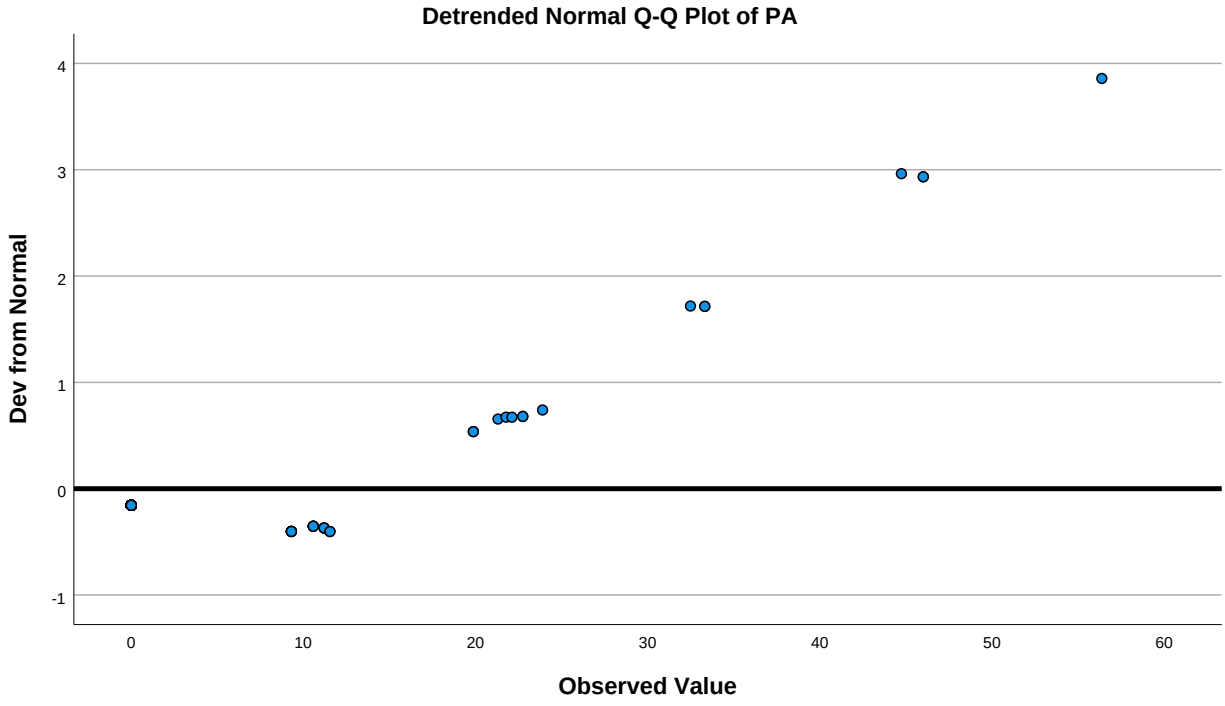


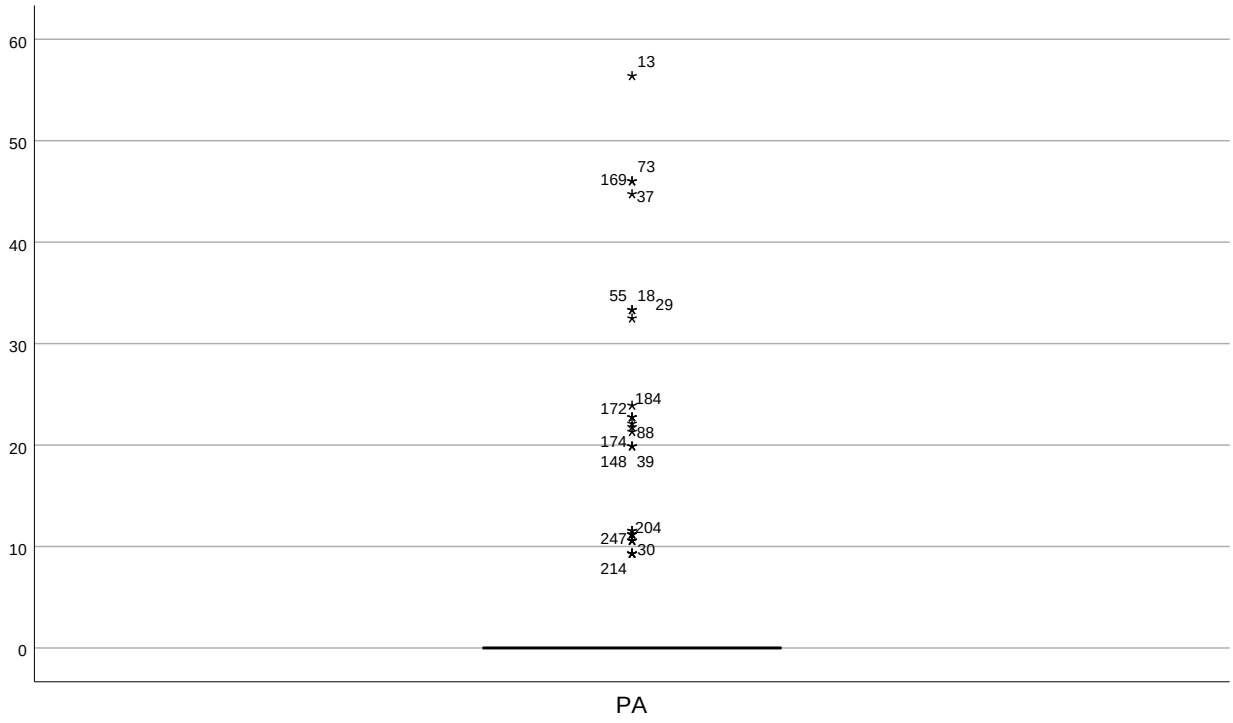
PA Stem-and-Leaf Plot

Frequency Stem & Leaf

```
   212.00        0 .  00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000
    29.00 Extremes    (>=9)

 Stem width:     10.00
 Each leaf:        3 case(s)
```




Detrended Normal Q-Q Plot of PA
Dev from Normal
4
3
2
1
0
-1
0
10
20
30
40
50
60
Observed Value


60
50
40
30
20
10
0
13
73
169
37
55
18
29
184
172
88
174
148
39
204
247
30
214
PA