

University of Dundee

DOCTOR OF PHILOSOPHY

A qualitative and quantitative analysis of the developing human lumbar vertebral column

Goodchild, Samantha

Award date:
2019

Awarding institution:
University of Dundee

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One Way Analysis of Variance

01 December 2018 15:27:55

Data source: BTVV in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.206)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.365)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	35.604	3.787	0.729
SC-096	27	0	33.724	3.743	0.720

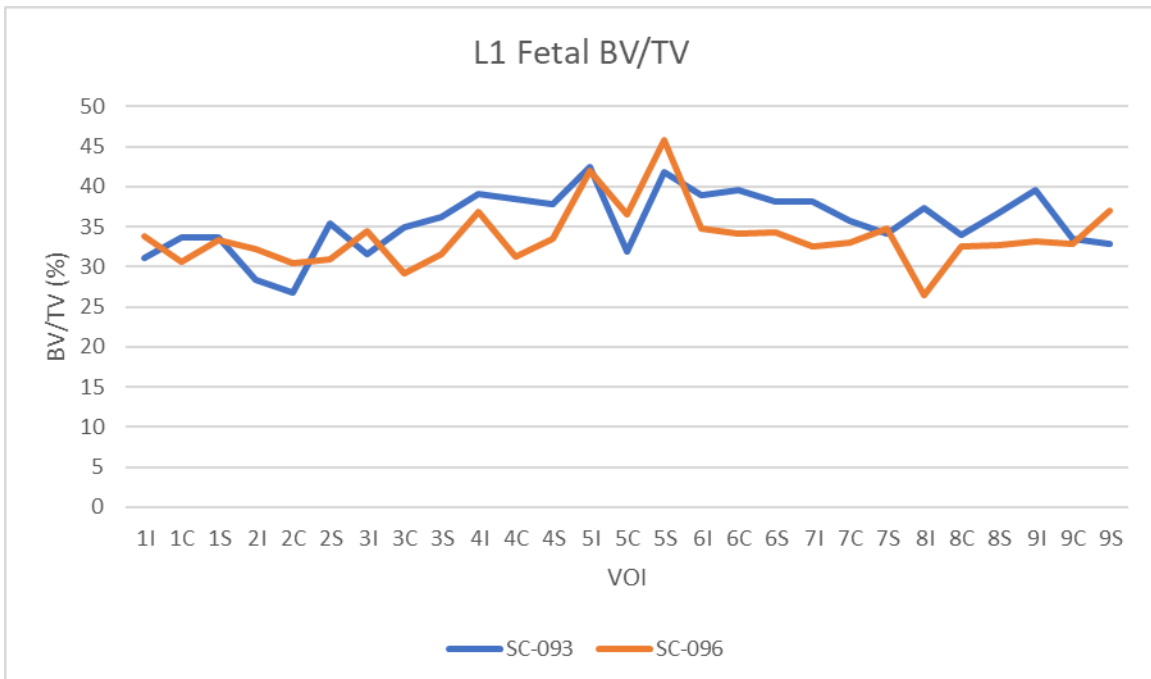
Source of Variation	DF	SS	MS	F	P
Between Groups	1	47.748	47.748	3.368	0.072
Residual	52	737.269	14.178		
Total	53	785.016			

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.072).

Power of performed test with alpha = 0.050: 0.327

The power of the performed test (0.327) is below the desired power of 0.800.

Less than desired power indicates you are less likely to detect a difference when one actually exists. Negative results should be interpreted cautiously.



One Way Analysis of Variance

01 December 2018 15:28:38

Data source: SMI in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

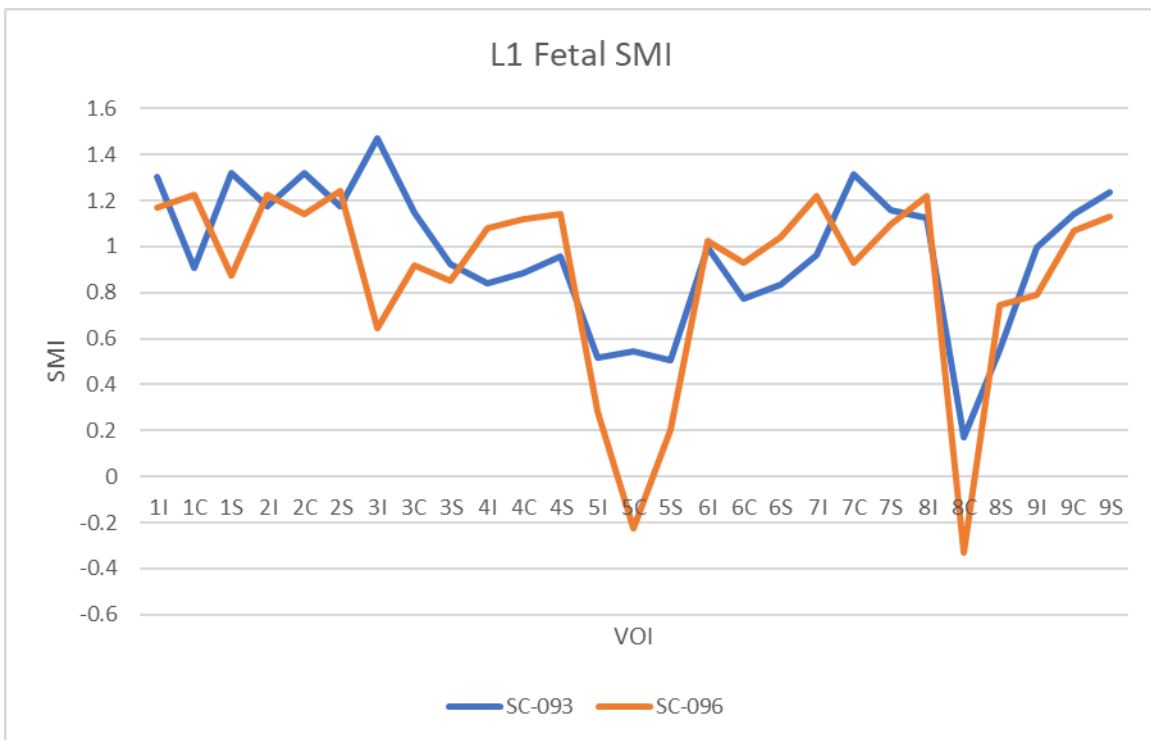
01 December 2018 15:28:38

Data source: SMI in L1 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-093	27	0	0.994	0.837	1.177
SC-096	27	0	1.040	0.792	1.141

H = 0.377 with 1 degrees of freedom. (P = 0.539)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.539)



One Way Analysis of Variance

01 December 2018 15:29:12

Data source: Tb.Th in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.245)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.368)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	76.470	15.870	3.054
SC-096	27	0	88.813	20.406	3.927

Source of Variation	DF	SS	MS	F	P
Between Groups	1	2056.657	2056.657	6.155	0.016
Residual	52	17374.417	334.123		
Total	53	19431.073			

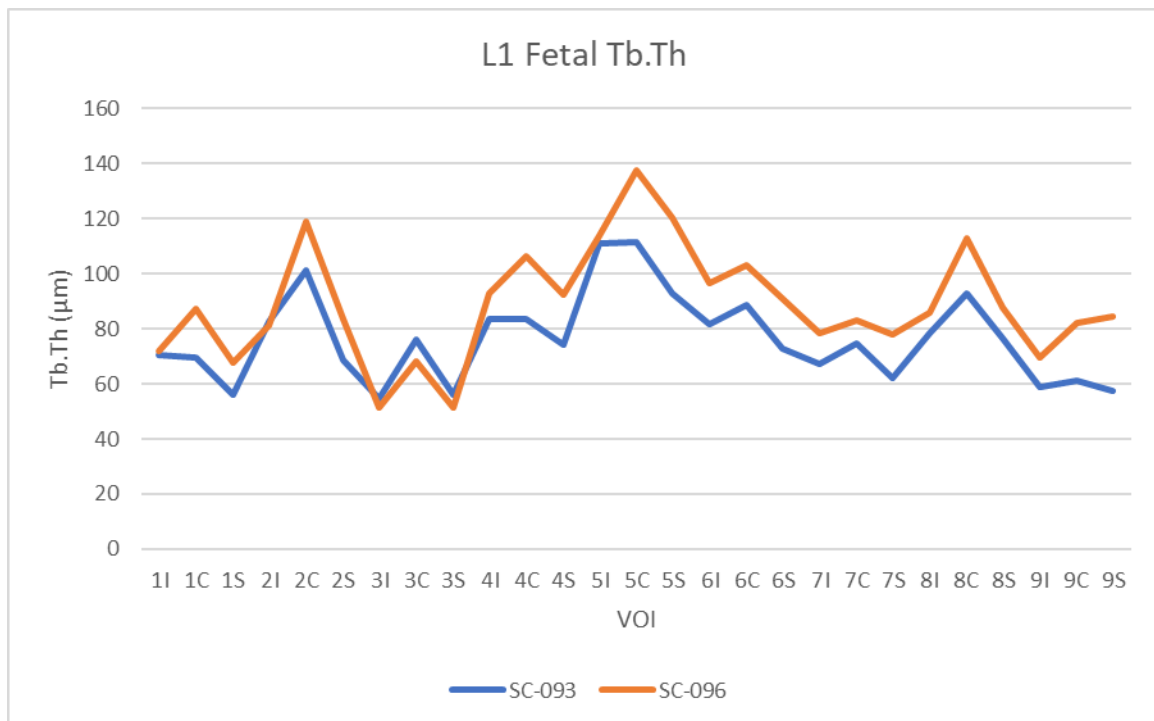
The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.016).

Power of performed test with alpha = 0.050: 0.606

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):
Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
SC-096 vs. SC-093	12.343	2.481	0.016	Yes



One Way Analysis of Variance

01 December 2018 15:31:32

Data source: Tb.N in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.215)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.705)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	0.00483	0.000975	0.000188
SC-096	27	0	0.00397	0.000934	0.000180

Source of Variation	DF	SS	MS	F	P
Between Groups	1	0.00000992	0.00000992	10.890	0.002
Residual	52	0.0000474	0.000000911		
Total	53	0.0000573			

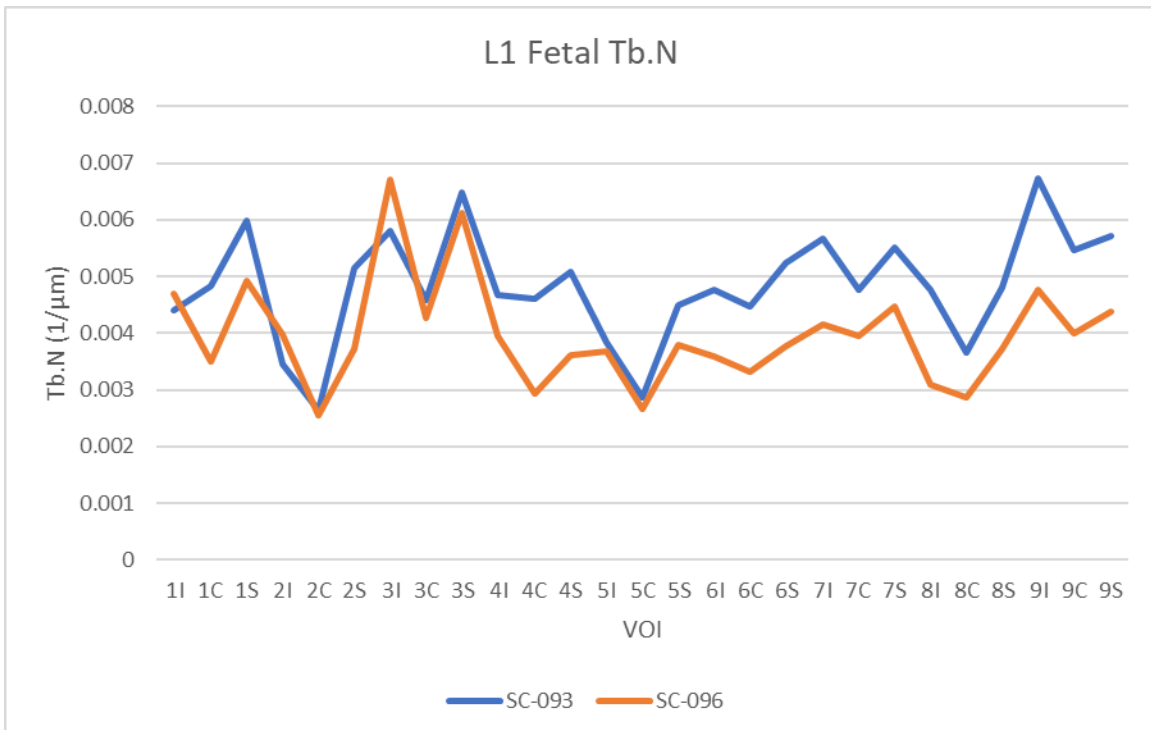
The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.002).

Power of performed test with alpha = 0.050: 0.870

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):
Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
SC-093 vs. SC-096	0.000857	3.300	0.002	Yes



One Way Analysis of Variance

01 December 2018 15:32:28

Data source: Tb.Sp in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 15:32:28

Data source: Tb.Sp in L1 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-093	27	0	139.267	118.063	153.593
SC-096	27	0	179.660	166.148	209.151

H = 16.178 with 1 degrees of freedom. (P = <0.001)

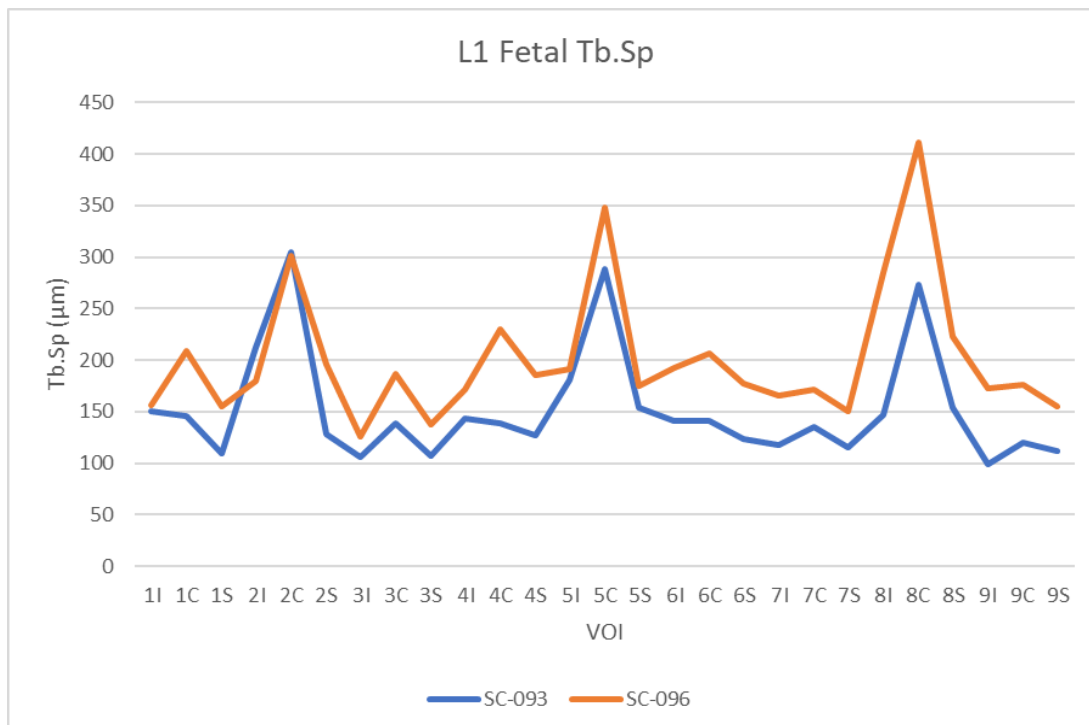
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-093	465.000	5.688	<0.001	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

01 December 2018 15:33:18

Data source: DA in L1 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.792)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.744)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	0.425	0.0942	0.0181
SC-096	27	0	0.390	0.0942	0.0181

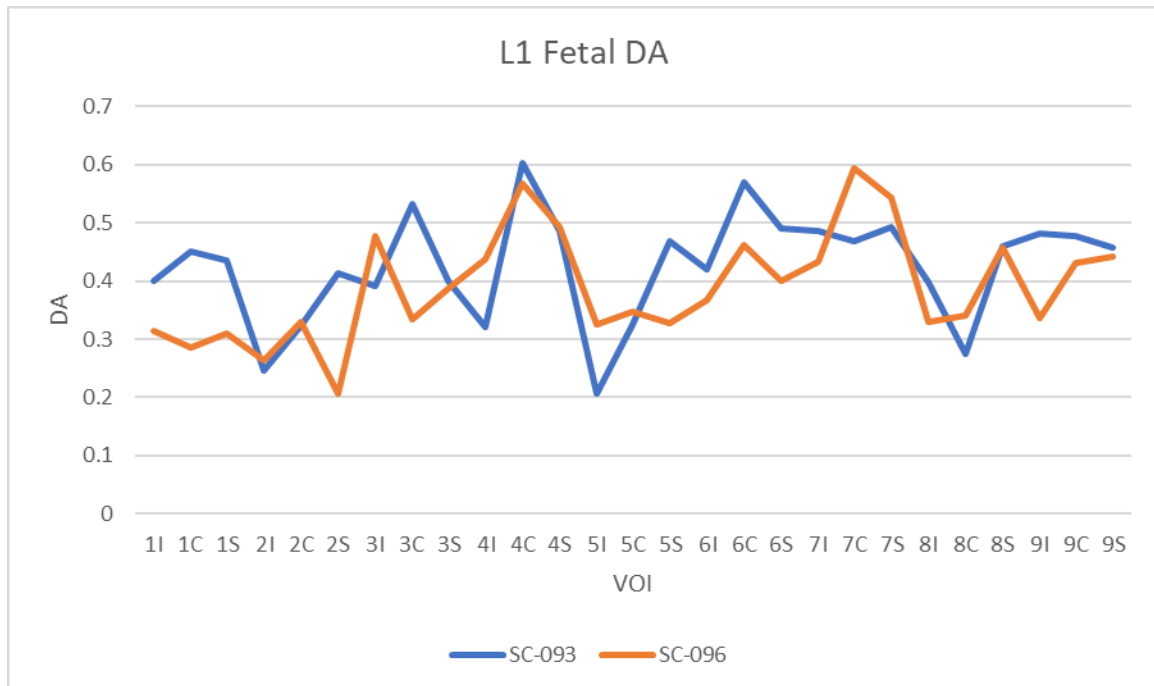
Source of Variation	DF	SS	MS	F	P
Between Groups	1	0.0163	0.0163	1.831	0.182
Residual	52	0.462	0.00888		
Total	53	0.478			

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.182).

Power of performed test with alpha = 0.050: 0.146

The power of the performed test (0.146) is below the desired power of 0.800.

Less than desired power indicates you are less likely to detect a difference when one actually exists. Negative results should be interpreted cautiously.



One Way Analysis of Variance

01 December 2018 15:38:39

Data source: BV/TV in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 15:38:39

Data source: BV/TV in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	29.033	22.856	31.147
SC-084	27	0	43.839	41.939	47.180
SC-086	27	0	32.651	29.918	36.799
SC-087	27	0	33.541	28.784	38.218
SC-088	27	0	32.818	31.038	39.106
SC-092	27	0	30.258	26.834	38.275
SC-097	27	0	22.348	19.891	26.264
SC-154	27	0	24.467	20.938	26.416
SC-155	27	0	20.208	17.361	24.053
SC-158	27	0	23.809	21.465	29.652
SC-161	27	0	28.029	25.371	31.038
SC-040	27	0	10.188	8.117	11.744
SC-041	27	0	14.729	12.661	15.988
SC-043	27	0	20.352	17.732	23.536

H = 268.283 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-040	9140.000	16.099	<0.001	Yes
SC-084 vs SC-041	8247.000	14.526	<0.001	Yes
SC-084 vs SC-043	6506.000	11.459	<0.001	Yes
SC-084 vs SC-155	6285.000	11.070	<0.001	Yes
SC-084 vs SC-097	5619.000	9.897	<0.001	Yes
SC-084 vs SC-154	5096.000	8.976	<0.001	Yes
SC-084 vs SC-158	4897.000	8.625	<0.001	Yes
SC-084 vs SC-161	3935.000	6.931	<0.001	Yes
SC-084 vs SC-020	3846.000	6.774	<0.001	Yes
SC-084 vs SC-092	2925.000	5.152	0.018	Yes
SC-084 vs SC-087	2207.000	3.887	0.250	No
SC-084 vs SC-086	2097.000	3.694	0.332	Do Not Test
SC-084 vs SC-088	1773.000	3.123	0.622	Do Not Test
SC-088 vs SC-040	7367.000	12.976	<0.001	Yes
SC-088 vs SC-041	6474.000	11.403	<0.001	Yes
SC-088 vs SC-043	4733.000	8.336	<0.001	Yes
SC-088 vs SC-155	4512.000	7.947	<0.001	Yes

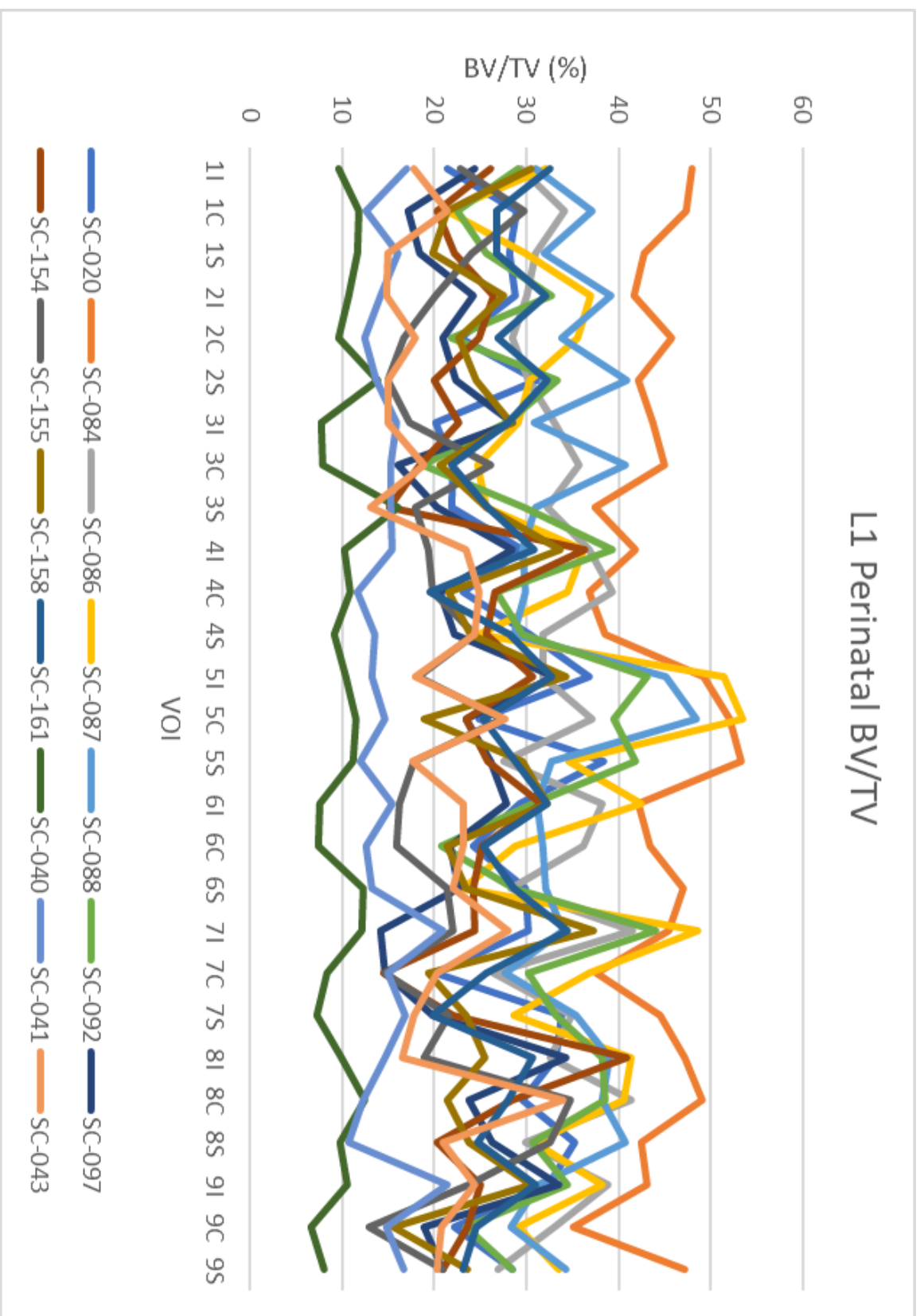
SC-088 vs SC-097	3846.000	6.774	<0.001	Yes
SC-088 vs SC-154	3323.000	5.853	0.002	Yes
SC-088 vs SC-158	3124.000	5.502	0.007	Yes
SC-088 vs SC-161	2162.000	3.808	0.282	No
SC-088 vs SC-020	2073.000	3.651	0.351	Do Not Test
SC-088 vs SC-092	1152.000	2.029	0.979	Do Not Test
SC-088 vs SC-087	434.000	0.764	1.000	Do Not Test
SC-088 vs SC-086	324.000	0.571	1.000	Do Not Test
SC-086 vs SC-040	7043.000	12.405	<0.001	Yes
SC-086 vs SC-041	6150.000	10.832	<0.001	Yes
SC-086 vs SC-043	4409.000	7.766	<0.001	Yes
SC-086 vs SC-155	4188.000	7.376	<0.001	Yes
SC-086 vs SC-097	3522.000	6.203	<0.001	Yes
SC-086 vs SC-154	2999.000	5.282	0.013	Yes
SC-086 vs SC-158	2800.000	4.932	0.032	Yes
SC-086 vs SC-161	1838.000	3.237	0.562	Do Not Test
SC-086 vs SC-020	1749.000	3.081	0.643	Do Not Test
SC-086 vs SC-092	828.000	1.458	0.999	Do Not Test
SC-086 vs SC-087	110.000	0.194	1.000	Do Not Test
SC-087 vs SC-040	6933.000	12.211	<0.001	Yes
SC-087 vs SC-041	6040.000	10.638	<0.001	Yes
SC-087 vs SC-043	4299.000	7.572	<0.001	Yes
SC-087 vs SC-155	4078.000	7.183	<0.001	Yes
SC-087 vs SC-097	3412.000	6.010	<0.001	Yes
SC-087 vs SC-154	2889.000	5.089	0.021	Yes
SC-087 vs SC-158	2690.000	4.738	0.050	Yes
SC-087 vs SC-161	1728.000	3.044	0.662	Do Not Test
SC-087 vs SC-020	1639.000	2.887	0.737	Do Not Test
SC-087 vs SC-092	718.000	1.265	1.000	Do Not Test
SC-092 vs SC-040	6215.000	10.947	<0.001	Yes
SC-092 vs SC-041	5322.000	9.374	<0.001	Yes
SC-092 vs SC-043	3581.000	6.307	<0.001	Yes
SC-092 vs SC-155	3360.000	5.918	0.001	Yes
SC-092 vs SC-097	2694.000	4.745	0.049	Yes
SC-092 vs SC-154	2171.000	3.824	0.275	No
SC-092 vs SC-158	1972.000	3.473	0.439	Do Not Test
SC-092 vs SC-161	1010.000	1.779	0.994	Do Not Test
SC-092 vs SC-020	921.000	1.622	0.998	Do Not Test
SC-020 vs SC-040	5294.000	9.325	<0.001	Yes
SC-020 vs SC-041	4401.000	7.752	<0.001	Yes
SC-020 vs SC-043	2660.000	4.685	0.056	No
SC-020 vs SC-155	2439.000	4.296	0.124	Do Not Test
SC-020 vs SC-097	1773.000	3.123	0.622	Do Not Test
SC-020 vs SC-154	1250.000	2.202	0.956	Do Not Test
SC-020 vs SC-158	1051.000	1.851	0.991	Do Not Test
SC-020 vs SC-161	89.000	0.157	1.000	Do Not Test
SC-161 vs SC-040	5205.000	9.168	<0.001	Yes
SC-161 vs SC-041	4312.000	7.595	<0.001	Yes
SC-161 vs SC-043	2571.000	4.528	0.078	Do Not Test
SC-161 vs SC-155	2350.000	4.139	0.165	Do Not Test
SC-161 vs SC-097	1684.000	2.966	0.700	Do Not Test
SC-161 vs SC-154	1161.000	2.045	0.977	Do Not Test
SC-161 vs SC-158	962.000	1.694	0.996	Do Not Test
SC-158 vs SC-040	4243.000	7.473	<0.001	Yes
SC-158 vs SC-041	3350.000	5.900	0.002	Yes
SC-158 vs SC-043	1609.000	2.834	0.761	Do Not Test

SC-158 vs SC-155	1388.000	2.445	0.902	Do Not Test
SC-158 vs SC-097	722.000	1.272	1.000	Do Not Test
SC-158 vs SC-154	199.000	0.351	1.000	Do Not Test
SC-154 vs SC-040	4044.000	7.123	<0.001	Yes
SC-154 vs SC-041	3151.000	5.550	0.006	Yes
SC-154 vs SC-043	1410.000	2.483	0.891	Do Not Test
SC-154 vs SC-155	1189.000	2.094	0.972	Do Not Test
SC-154 vs SC-097	523.000	0.921	1.000	Do Not Test
SC-097 vs SC-040	3521.000	6.202	<0.001	Yes
SC-097 vs SC-041	2628.000	4.629	0.063	No
SC-097 vs SC-043	887.000	1.562	0.998	Do Not Test
SC-097 vs SC-155	666.000	1.173	1.000	Do Not Test
SC-155 vs SC-040	2855.000	5.029	0.025	Yes
SC-155 vs SC-041	1962.000	3.456	0.448	Do Not Test
SC-155 vs SC-043	221.000	0.389	1.000	Do Not Test
SC-043 vs SC-040	2634.000	4.639	0.062	No
SC-043 vs SC-041	1741.000	3.066	0.650	Do Not Test
SC-041 vs SC-040	893.000	1.573	0.998	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 Perinatal BV/TV



One Way Analysis of Variance

01 December 2018 15:40:27

Data source: SMI in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 15:40:27

Data source: SMI in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	1.262	1.032	1.629
SC-084	27	0	0.252	-0.225	0.422
SC-086	27	0	1.182	0.793	1.326
SC-087	27	0	1.357	1.096	1.612
SC-088	27	0	1.138	0.441	1.234
SC-092	27	0	1.110	0.508	1.350
SC-097	27	0	1.533	1.230	1.824
SC-154	27	0	1.518	1.238	1.823
SC-155	27	0	1.755	1.576	1.956
SC-158	27	0	1.441	1.286	1.700
SC-161	27	0	1.249	1.036	1.459
SC-040	27	0	2.099	1.945	2.219
SC-041	27	0	1.773	1.722	1.840
SC-043	27	0	1.571	1.409	1.722

H = 196.684 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-040 vs SC-084	8458.000	14.897	<0.001	Yes
SC-040 vs SC-088	6408.000	11.287	<0.001	Yes
SC-040 vs SC-092	5959.000	10.496	<0.001	Yes
SC-040 vs SC-086	5904.000	10.399	<0.001	Yes
SC-040 vs SC-161	5119.000	9.016	<0.001	Yes
SC-040 vs SC-020	4814.000	8.479	<0.001	Yes
SC-040 vs SC-087	4349.000	7.660	<0.001	Yes
SC-040 vs SC-158	3679.000	6.480	<0.001	Yes
SC-040 vs SC-097	3209.000	5.652	0.004	Yes
SC-040 vs SC-154	3188.000	5.615	0.005	Yes
SC-040 vs SC-043	3153.000	5.554	0.006	Yes
SC-040 vs SC-155	2234.000	3.935	0.232	No
SC-040 vs SC-041	1311.000	2.309	0.936	Do Not Test
SC-041 vs SC-084	7147.000	12.588	<0.001	Yes
SC-041 vs SC-088	5097.000	8.978	<0.001	Yes
SC-041 vs SC-092	4648.000	8.187	<0.001	Yes

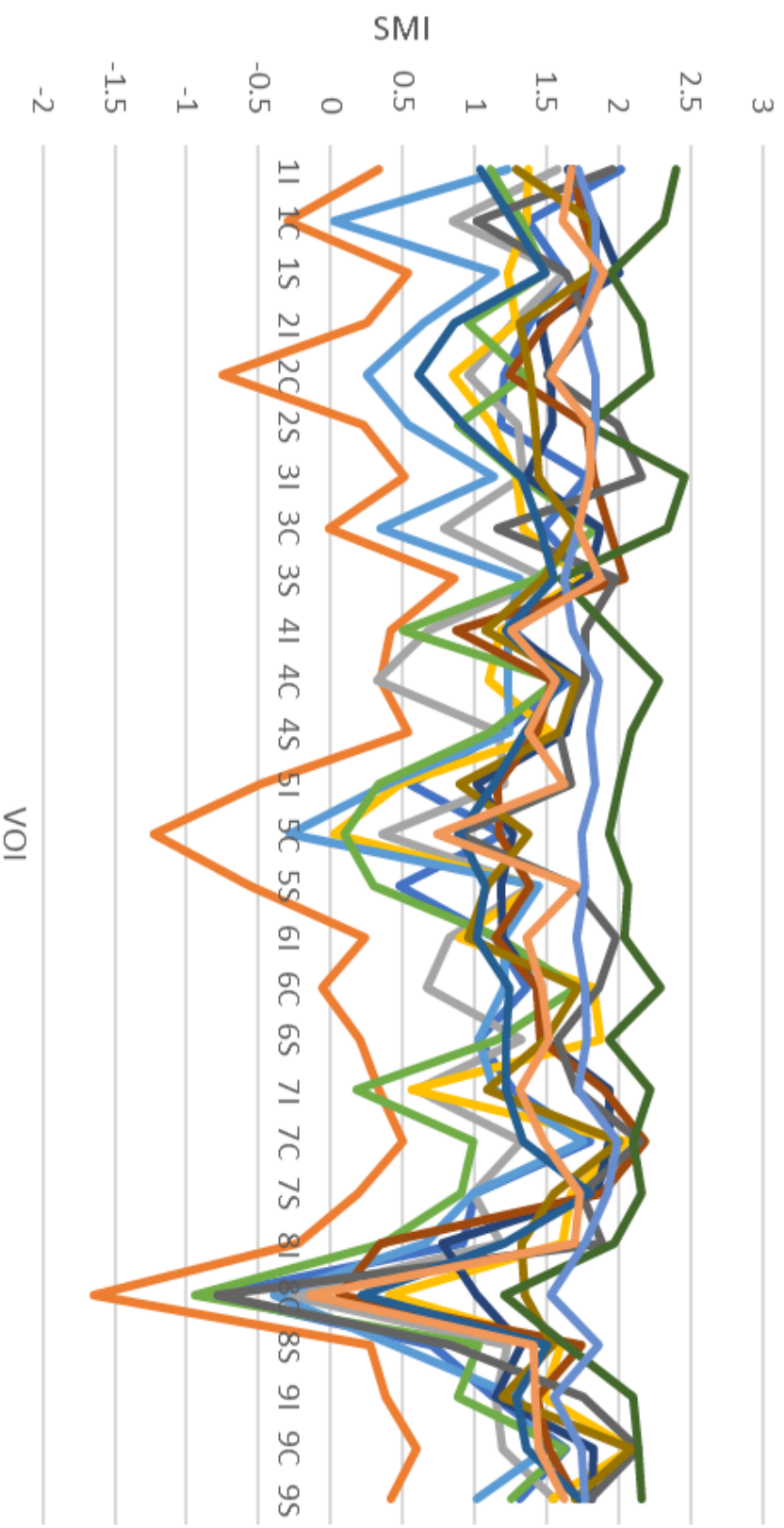
SC-041 vs SC-086	4593.000	8.090	<0.001	Yes
SC-041 vs SC-161	3808.000	6.707	<0.001	Yes
SC-041 vs SC-020	3503.000	6.170	<0.001	Yes
SC-041 vs SC-087	3038.000	5.351	0.011	Yes
SC-041 vs SC-158	2368.000	4.171	0.156	No
SC-041 vs SC-097	1898.000	3.343	0.506	Do Not Test
SC-041 vs SC-154	1877.000	3.306	0.526	Do Not Test
SC-041 vs SC-043	1842.000	3.244	0.558	Do Not Test
SC-041 vs SC-155	923.000	1.626	0.998	Do Not Test
SC-155 vs SC-084	6224.000	10.963	<0.001	Yes
SC-155 vs SC-088	4174.000	7.352	<0.001	Yes
SC-155 vs SC-092	3725.000	6.561	<0.001	Yes
SC-155 vs SC-086	3670.000	6.464	<0.001	Yes
SC-155 vs SC-161	2885.000	5.081	0.022	Yes
SC-155 vs SC-020	2580.000	4.544	0.076	No
SC-155 vs SC-087	2115.000	3.725	0.318	Do Not Test
SC-155 vs SC-158	1445.000	2.545	0.872	Do Not Test
SC-155 vs SC-097	975.000	1.717	0.996	Do Not Test
SC-155 vs SC-154	954.000	1.680	0.997	Do Not Test
SC-155 vs SC-043	919.000	1.619	0.998	Do Not Test
SC-043 vs SC-084	5305.000	9.344	<0.001	Yes
SC-043 vs SC-088	3255.000	5.733	0.003	Yes
SC-043 vs SC-092	2806.000	4.942	0.031	Yes
SC-043 vs SC-086	2751.000	4.845	0.039	Yes
SC-043 vs SC-161	1966.000	3.463	0.444	No
SC-043 vs SC-020	1661.000	2.926	0.719	Do Not Test
SC-043 vs SC-087	1196.000	2.107	0.970	Do Not Test
SC-043 vs SC-158	526.000	0.926	1.000	Do Not Test
SC-043 vs SC-097	56.000	0.0986	1.000	Do Not Test
SC-043 vs SC-154	35.000	0.0616	1.000	Do Not Test
SC-154 vs SC-084	5270.000	9.282	<0.001	Yes
SC-154 vs SC-088	3220.000	5.672	0.004	Yes
SC-154 vs SC-092	2771.000	4.881	0.036	Yes
SC-154 vs SC-086	2716.000	4.784	0.045	Yes
SC-154 vs SC-161	1931.000	3.401	0.476	Do Not Test
SC-154 vs SC-020	1626.000	2.864	0.747	Do Not Test
SC-154 vs SC-087	1161.000	2.045	0.977	Do Not Test
SC-154 vs SC-158	491.000	0.865	1.000	Do Not Test
SC-154 vs SC-097	21.000	0.0370	1.000	Do Not Test
SC-097 vs SC-084	5249.000	9.245	<0.001	Yes
SC-097 vs SC-088	3199.000	5.635	0.004	Yes
SC-097 vs SC-092	2750.000	4.844	0.039	Yes
SC-097 vs SC-086	2695.000	4.747	0.049	Yes
SC-097 vs SC-161	1910.000	3.364	0.495	Do Not Test
SC-097 vs SC-020	1605.000	2.827	0.764	Do Not Test
SC-097 vs SC-087	1140.000	2.008	0.981	Do Not Test
SC-097 vs SC-158	470.000	0.828	1.000	Do Not Test
SC-158 vs SC-084	4779.000	8.417	<0.001	Yes
SC-158 vs SC-088	2729.000	4.807	0.042	Yes
SC-158 vs SC-092	2280.000	4.016	0.204	No
SC-158 vs SC-086	2225.000	3.919	0.238	Do Not Test
SC-158 vs SC-161	1440.000	2.536	0.875	Do Not Test
SC-158 vs SC-020	1135.000	1.999	0.981	Do Not Test
SC-158 vs SC-087	670.000	1.180	1.000	Do Not Test
SC-087 vs SC-084	4109.000	7.237	<0.001	Yes
SC-087 vs SC-088	2059.000	3.627	0.363	No

SC-087 vs SC-092	1610.000	2.836	0.760	Do Not Test
SC-087 vs SC-086	1555.000	2.739	0.801	Do Not Test
SC-087 vs SC-161	770.000	1.356	1.000	Do Not Test
SC-087 vs SC-020	465.000	0.819	1.000	Do Not Test
SC-020 vs SC-084	3644.000	6.418	<0.001	Yes
SC-020 vs SC-088	1594.000	2.808	0.772	Do Not Test
SC-020 vs SC-092	1145.000	2.017	0.980	Do Not Test
SC-020 vs SC-086	1090.000	1.920	0.987	Do Not Test
SC-020 vs SC-161	305.000	0.537	1.000	Do Not Test
SC-161 vs SC-084	3339.000	5.881	0.002	Yes
SC-161 vs SC-088	1289.000	2.270	0.944	Do Not Test
SC-161 vs SC-092	840.000	1.480	0.999	Do Not Test
SC-161 vs SC-086	785.000	1.383	1.000	Do Not Test
SC-086 vs SC-084	2554.000	4.498	0.083	No
SC-086 vs SC-088	504.000	0.888	1.000	Do Not Test
SC-086 vs SC-092	55.000	0.0969	1.000	Do Not Test
SC-092 vs SC-084	2499.000	4.402	0.101	Do Not Test
SC-092 vs SC-088	449.000	0.791	1.000	Do Not Test
SC-088 vs SC-084	2050.000	3.611	0.371	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 Perinatal SMI



One Way Analysis of Variance

01 December 2018 15:41:46

Data source: Tb.Th in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 15:41:46

Data source: Tb.Th in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	99.741	89.949	112.885
SC-084	27	0	108.641	99.825	124.832
SC-086	27	0	100.370	94.256	116.602
SC-087	27	0	123.543	101.908	139.598
SC-088	27	0	112.598	94.423	132.099
SC-092	27	0	100.940	83.366	110.121
SC-097	27	0	84.578	79.773	100.418
SC-154	27	0	91.321	77.465	107.838
SC-155	27	0	85.758	81.782	97.810
SC-158	27	0	103.081	90.273	116.964
SC-161	27	0	97.317	92.354	107.765
SC-040	27	0	73.341	68.130	83.240
SC-041	27	0	98.025	92.269	106.245
SC-043	27	0	84.450	71.249	95.291

H = 127.812 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-087 vs SC-040	6562.000	11.558	<0.001	Yes
SC-087 vs SC-043	4933.000	8.689	<0.001	Yes
SC-087 vs SC-097	4578.000	8.063	<0.001	Yes
SC-087 vs SC-155	4393.000	7.738	<0.001	Yes
SC-087 vs SC-154	3627.000	6.388	<0.001	Yes
SC-087 vs SC-161	2761.000	4.863	0.037	Yes
SC-087 vs SC-092	2715.000	4.782	0.045	Yes
SC-087 vs SC-041	2451.000	4.317	0.119	No
SC-087 vs SC-020	2340.000	4.122	0.170	Do Not Test
SC-087 vs SC-086	2083.000	3.669	0.343	Do Not Test
SC-087 vs SC-158	1965.000	3.461	0.445	Do Not Test
SC-087 vs SC-088	1094.000	1.927	0.987	Do Not Test
SC-087 vs SC-084	825.000	1.453	0.999	Do Not Test
SC-084 vs SC-040	5737.000	10.105	<0.001	Yes
SC-084 vs SC-043	4108.000	7.236	<0.001	Yes
SC-084 vs SC-097	3753.000	6.610	<0.001	Yes
SC-084 vs SC-155	3568.000	6.284	<0.001	Yes

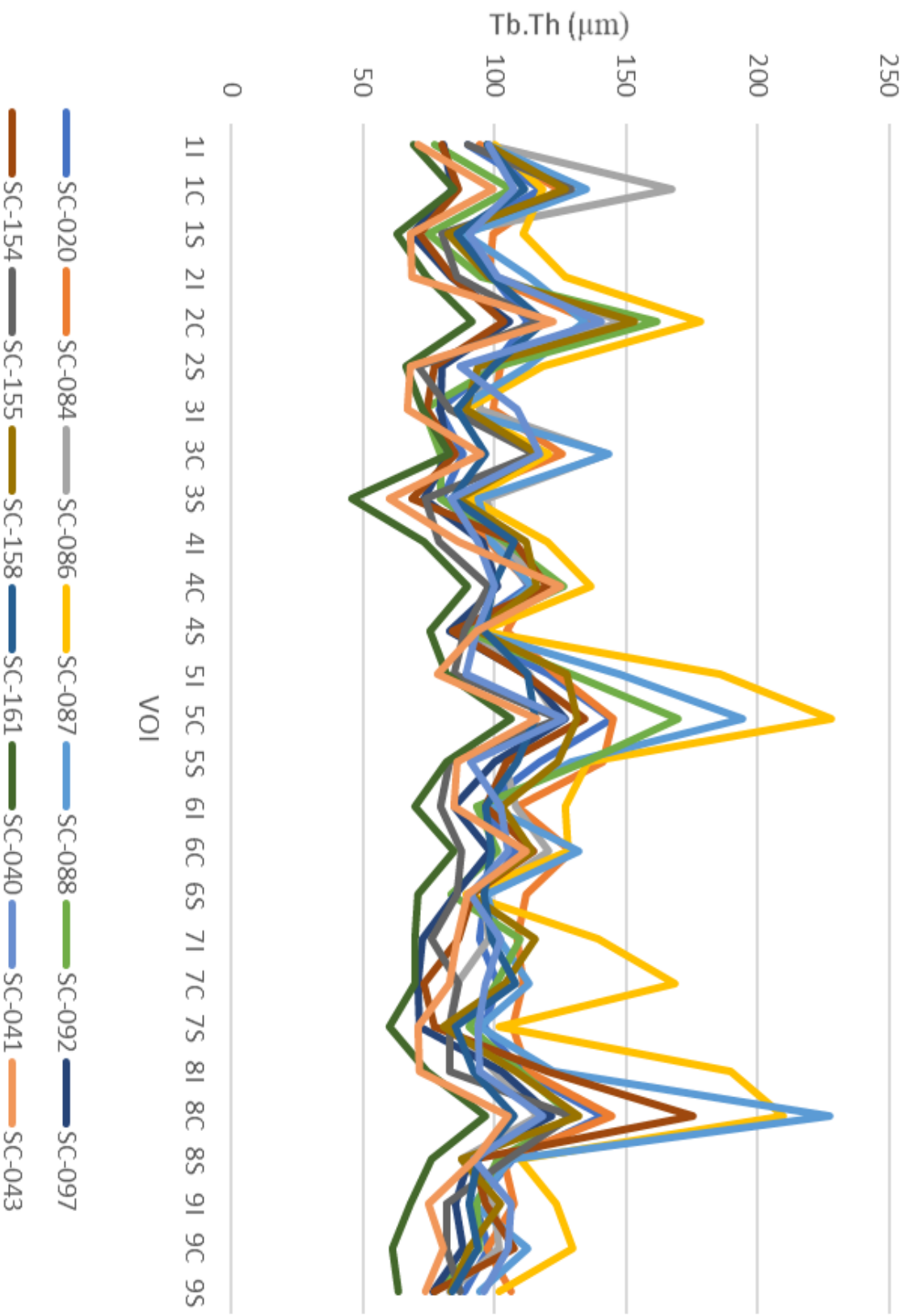
SC-084 vs SC-154	2802.000	4.935	0.031	Yes
SC-084 vs SC-161	1936.000	3.410	0.471	No
SC-084 vs SC-092	1890.000	3.329	0.514	Do Not Test
SC-084 vs SC-041	1626.000	2.864	0.747	Do Not Test
SC-084 vs SC-020	1515.000	2.668	0.829	Do Not Test
SC-084 vs SC-086	1258.000	2.216	0.954	Do Not Test
SC-084 vs SC-158	1140.000	2.008	0.981	Do Not Test
SC-084 vs SC-088	269.000	0.474	1.000	Do Not Test
SC-088 vs SC-040	5468.000	9.631	<0.001	Yes
SC-088 vs SC-043	3839.000	6.762	<0.001	Yes
SC-088 vs SC-097	3484.000	6.137	<0.001	Yes
SC-088 vs SC-155	3299.000	5.811	0.002	Yes
SC-088 vs SC-154	2533.000	4.461	0.090	No
SC-088 vs SC-161	1667.000	2.936	0.714	Do Not Test
SC-088 vs SC-092	1621.000	2.855	0.751	Do Not Test
SC-088 vs SC-041	1357.000	2.390	0.917	Do Not Test
SC-088 vs SC-020	1246.000	2.195	0.958	Do Not Test
SC-088 vs SC-086	989.000	1.742	0.995	Do Not Test
SC-088 vs SC-158	871.000	1.534	0.999	Do Not Test
SC-158 vs SC-040	4597.000	8.097	<0.001	Yes
SC-158 vs SC-043	2968.000	5.228	0.015	Yes
SC-158 vs SC-097	2613.000	4.602	0.067	No
SC-158 vs SC-155	2428.000	4.277	0.129	Do Not Test
SC-158 vs SC-154	1662.000	2.927	0.718	Do Not Test
SC-158 vs SC-161	796.000	1.402	0.999	Do Not Test
SC-158 vs SC-092	750.000	1.321	1.000	Do Not Test
SC-158 vs SC-041	486.000	0.856	1.000	Do Not Test
SC-158 vs SC-020	375.000	0.661	1.000	Do Not Test
SC-158 vs SC-086	118.000	0.208	1.000	Do Not Test
SC-086 vs SC-040	4479.000	7.889	<0.001	Yes
SC-086 vs SC-043	2850.000	5.020	0.025	Yes
SC-086 vs SC-097	2495.000	4.395	0.103	Do Not Test
SC-086 vs SC-155	2310.000	4.069	0.187	Do Not Test
SC-086 vs SC-154	1544.000	2.720	0.809	Do Not Test
SC-086 vs SC-161	678.000	1.194	1.000	Do Not Test
SC-086 vs SC-092	632.000	1.113	1.000	Do Not Test
SC-086 vs SC-041	368.000	0.648	1.000	Do Not Test
SC-086 vs SC-020	257.000	0.453	1.000	Do Not Test
SC-020 vs SC-040	4222.000	7.436	<0.001	Yes
SC-020 vs SC-043	2593.000	4.567	0.072	No
SC-020 vs SC-097	2238.000	3.942	0.230	Do Not Test
SC-020 vs SC-155	2053.000	3.616	0.368	Do Not Test
SC-020 vs SC-154	1287.000	2.267	0.945	Do Not Test
SC-020 vs SC-161	421.000	0.742	1.000	Do Not Test
SC-020 vs SC-092	375.000	0.661	1.000	Do Not Test
SC-020 vs SC-041	111.000	0.196	1.000	Do Not Test
SC-041 vs SC-040	4111.000	7.241	<0.001	Yes
SC-041 vs SC-043	2482.000	4.372	0.107	Do Not Test
SC-041 vs SC-097	2127.000	3.746	0.308	Do Not Test
SC-041 vs SC-155	1942.000	3.421	0.466	Do Not Test
SC-041 vs SC-154	1176.000	2.071	0.974	Do Not Test
SC-041 vs SC-161	310.000	0.546	1.000	Do Not Test
SC-041 vs SC-092	264.000	0.465	1.000	Do Not Test
SC-092 vs SC-040	3847.000	6.776	<0.001	Yes
SC-092 vs SC-043	2218.000	3.907	0.243	Do Not Test
SC-092 vs SC-097	1863.000	3.281	0.539	Do Not Test

SC-092 vs SC-155	1678.000	2.956	0.705	Do Not Test
SC-092 vs SC-154	912.000	1.606	0.998	Do Not Test
SC-092 vs SC-161	46.000	0.0810	1.000	Do Not Test
SC-161 vs SC-040	3801.000	6.695	<0.001	Yes
SC-161 vs SC-043	2172.000	3.826	0.275	Do Not Test
SC-161 vs SC-097	1817.000	3.200	0.581	Do Not Test
SC-161 vs SC-155	1632.000	2.875	0.743	Do Not Test
SC-161 vs SC-154	866.000	1.525	0.999	Do Not Test
SC-154 vs SC-040	2935.000	5.170	0.017	Yes
SC-154 vs SC-043	1306.000	2.300	0.938	Do Not Test
SC-154 vs SC-097	951.000	1.675	0.997	Do Not Test
SC-154 vs SC-155	766.000	1.349	1.000	Do Not Test
SC-155 vs SC-040	2169.000	3.820	0.277	No
SC-155 vs SC-043	540.000	0.951	1.000	Do Not Test
SC-155 vs SC-097	185.000	0.326	1.000	Do Not Test
SC-097 vs SC-040	1984.000	3.494	0.428	Do Not Test
SC-097 vs SC-043	355.000	0.625	1.000	Do Not Test
SC-043 vs SC-040	1629.000	2.869	0.745	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 Perinatal Tb.Th



One Way Analysis of Variance

01 December 2018 15:59:53

Data source: Tb.N in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 15:59:53

Data source: Tb.N in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.00293	0.00227	0.00320
SC-084	27	0	0.00401	0.00358	0.00425
SC-086	27	0	0.00324	0.00299	0.00353
SC-087	27	0	0.00262	0.00224	0.00301
SC-088	27	0	0.00316	0.00254	0.00345
SC-092	27	0	0.00331	0.00249	0.00369
SC-097	27	0	0.00269	0.00204	0.00295
SC-154	27	0	0.00259	0.00221	0.00306
SC-155	27	0	0.00230	0.00209	0.00259
SC-158	27	0	0.00259	0.00186	0.00297
SC-161	27	0	0.00286	0.00240	0.00326
SC-040	27	0	0.00128	0.00109	0.00144
SC-041	27	0	0.00147	0.00120	0.00174
SC-043	27	0	0.00233	0.00215	0.00262

H = 213.910 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-040	8489.500	14.953	<0.001	Yes
SC-084 vs SC-041	8466.500	14.912	<0.001	Yes
SC-084 vs SC-155	5730.500	10.093	<0.001	Yes
SC-084 vs SC-043	5427.500	9.560	<0.001	Yes
SC-084 vs SC-158	5158.000	9.085	<0.001	Yes
SC-084 vs SC-097	4546.000	8.007	<0.001	Yes
SC-084 vs SC-154	4515.500	7.953	<0.001	Yes
SC-084 vs SC-087	4407.000	7.762	<0.001	Yes
SC-084 vs SC-020	3848.000	6.778	<0.001	Yes
SC-084 vs SC-161	3616.500	6.370	<0.001	Yes
SC-084 vs SC-088	2671.500	4.705	0.053	No
SC-084 vs SC-092	2426.000	4.273	0.130	Do Not Test
SC-084 vs SC-086	2143.500	3.775	0.296	Do Not Test
SC-086 vs SC-040	6346.000	11.177	<0.001	Yes
SC-086 vs SC-041	6323.000	11.137	<0.001	Yes
SC-086 vs SC-155	3587.000	6.318	<0.001	Yes
SC-086 vs SC-043	3284.000	5.784	0.003	Yes

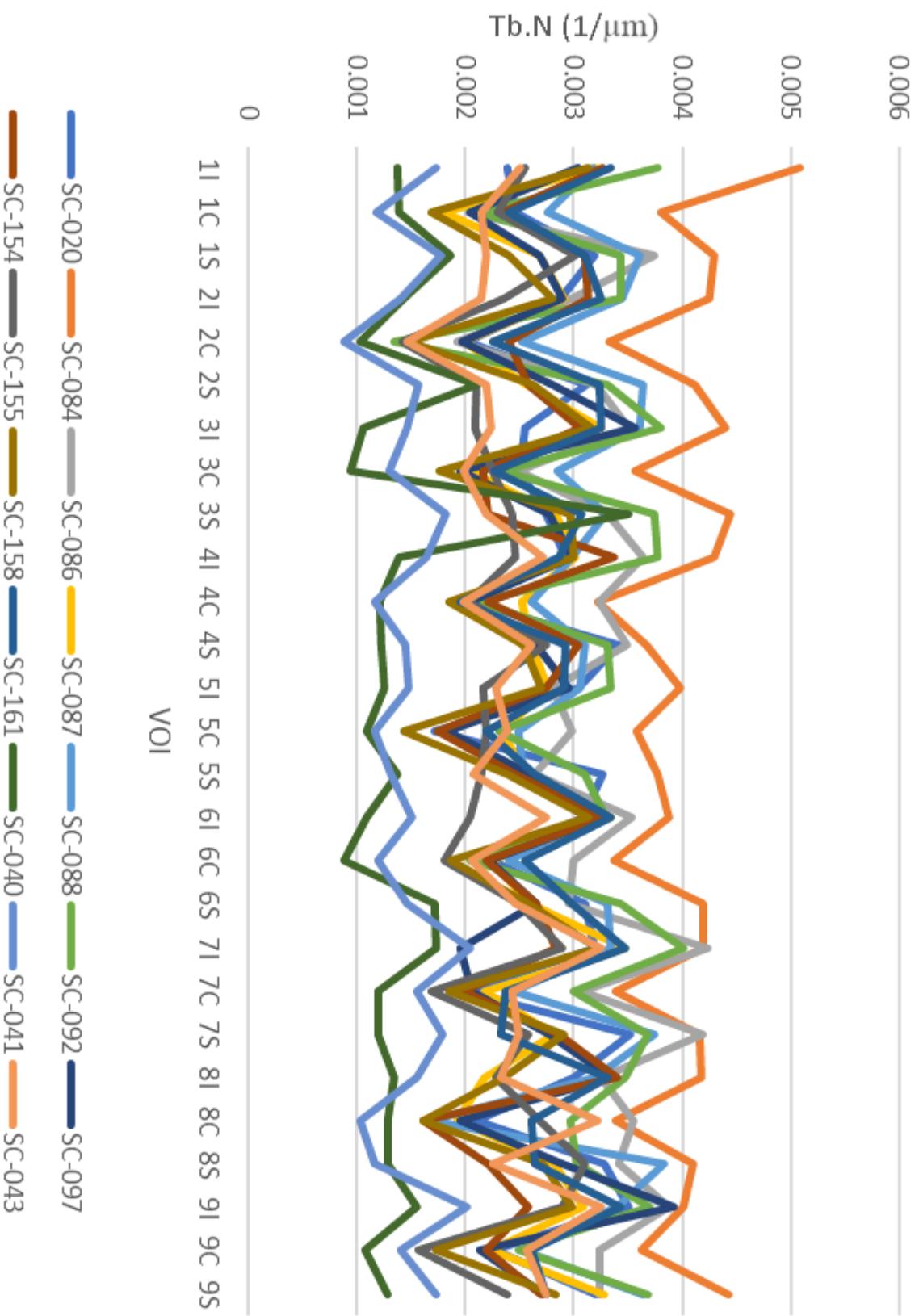
SC-086 vs SC-158	3014.500	5.310	0.012	Yes
SC-086 vs SC-097	2402.500	4.232	0.140	No
SC-086 vs SC-154	2372.000	4.178	0.154	Do Not Test
SC-086 vs SC-087	2263.500	3.987	0.214	Do Not Test
SC-086 vs SC-020	1704.500	3.002	0.682	Do Not Test
SC-086 vs SC-161	1473.000	2.594	0.855	Do Not Test
SC-086 vs SC-088	528.000	0.930	1.000	Do Not Test
SC-086 vs SC-092	282.500	0.498	1.000	Do Not Test
SC-092 vs SC-040	6063.500	10.680	<0.001	Yes
SC-092 vs SC-041	6040.500	10.639	<0.001	Yes
SC-092 vs SC-155	3304.500	5.820	0.002	Yes
SC-092 vs SC-043	3001.500	5.287	0.013	Yes
SC-092 vs SC-158	2732.000	4.812	0.042	Yes
SC-092 vs SC-097	2120.000	3.734	0.314	Do Not Test
SC-092 vs SC-154	2089.500	3.680	0.338	Do Not Test
SC-092 vs SC-087	1981.000	3.489	0.431	Do Not Test
SC-092 vs SC-020	1422.000	2.505	0.885	Do Not Test
SC-092 vs SC-161	1190.500	2.097	0.971	Do Not Test
SC-092 vs SC-088	245.500	0.432	1.000	Do Not Test
SC-088 vs SC-040	5818.000	10.247	<0.001	Yes
SC-088 vs SC-041	5795.000	10.207	<0.001	Yes
SC-088 vs SC-155	3059.000	5.388	0.009	Yes
SC-088 vs SC-043	2756.000	4.854	0.038	Yes
SC-088 vs SC-158	2486.500	4.380	0.106	No
SC-088 vs SC-097	1874.500	3.302	0.528	Do Not Test
SC-088 vs SC-154	1844.000	3.248	0.556	Do Not Test
SC-088 vs SC-087	1735.500	3.057	0.655	Do Not Test
SC-088 vs SC-020	1176.500	2.072	0.974	Do Not Test
SC-088 vs SC-161	945.000	1.664	0.997	Do Not Test
SC-161 vs SC-040	4873.000	8.583	<0.001	Yes
SC-161 vs SC-041	4850.000	8.542	<0.001	Yes
SC-161 vs SC-155	2114.000	3.723	0.318	No
SC-161 vs SC-043	1811.000	3.190	0.587	Do Not Test
SC-161 vs SC-158	1541.500	2.715	0.810	Do Not Test
SC-161 vs SC-097	929.500	1.637	0.997	Do Not Test
SC-161 vs SC-154	899.000	1.583	0.998	Do Not Test
SC-161 vs SC-087	790.500	1.392	0.999	Do Not Test
SC-161 vs SC-020	231.500	0.408	1.000	Do Not Test
SC-020 vs SC-040	4641.500	8.175	<0.001	Yes
SC-020 vs SC-041	4618.500	8.135	<0.001	Yes
SC-020 vs SC-155	1882.500	3.316	0.521	Do Not Test
SC-020 vs SC-043	1579.500	2.782	0.783	Do Not Test
SC-020 vs SC-158	1310.000	2.307	0.936	Do Not Test
SC-020 vs SC-097	698.000	1.229	1.000	Do Not Test
SC-020 vs SC-154	667.500	1.176	1.000	Do Not Test
SC-020 vs SC-087	559.000	0.985	1.000	Do Not Test
SC-087 vs SC-040	4082.500	7.191	<0.001	Yes
SC-087 vs SC-041	4059.500	7.150	<0.001	Yes
SC-087 vs SC-155	1323.500	2.331	0.931	Do Not Test
SC-087 vs SC-043	1020.500	1.797	0.993	Do Not Test
SC-087 vs SC-158	751.000	1.323	1.000	Do Not Test
SC-087 vs SC-097	139.000	0.245	1.000	Do Not Test
SC-087 vs SC-154	108.500	0.191	1.000	Do Not Test
SC-154 vs SC-040	3974.000	7.000	<0.001	Yes
SC-154 vs SC-041	3951.000	6.959	<0.001	Yes
SC-154 vs SC-155	1215.000	2.140	0.966	Do Not Test

SC-154 vs SC-043	912.000	1.606	0.998	Do Not Test
SC-154 vs SC-158	642.500	1.132	1.000	Do Not Test
SC-154 vs SC-097	30.500	0.0537	1.000	Do Not Test
SC-097 vs SC-040	3943.500	6.946	<0.001	Yes
SC-097 vs SC-041	3920.500	6.905	<0.001	Yes
SC-097 vs SC-155	1184.500	2.086	0.973	Do Not Test
SC-097 vs SC-043	881.500	1.553	0.998	Do Not Test
SC-097 vs SC-158	612.000	1.078	1.000	Do Not Test
SC-158 vs SC-040	3331.500	5.868	0.002	Yes
SC-158 vs SC-041	3308.500	5.827	0.002	Yes
SC-158 vs SC-155	572.500	1.008	1.000	Do Not Test
SC-158 vs SC-043	269.500	0.475	1.000	Do Not Test
SC-043 vs SC-040	3062.000	5.393	0.009	Yes
SC-043 vs SC-041	3039.000	5.353	0.010	Yes
SC-043 vs SC-155	303.000	0.534	1.000	Do Not Test
SC-155 vs SC-040	2759.000	4.860	0.038	Yes
SC-155 vs SC-041	2736.000	4.819	0.041	Yes
SC-041 vs SC-040	23.000	0.0405	1.000	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 Perinatal Tb.N



One Way Analysis of Variance

01 December 2018 16:00:38

Data source: Tb.Sp in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:00:38

Data source: Tb.Sp in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	227.276	214.400	265.599
SC-084	27	0	170.641	160.843	206.700
SC-086	27	0	200.008	183.845	236.849
SC-087	27	0	222.545	197.617	249.600
SC-088	27	0	206.744	191.380	246.951
SC-092	27	0	207.013	189.390	237.790
SC-097	27	0	240.026	220.449	286.526
SC-154	27	0	238.503	212.179	280.624
SC-155	27	0	245.788	218.941	289.535
SC-158	27	0	257.986	240.600	322.596
SC-161	27	0	226.671	199.396	262.791
SC-040	27	0	423.048	384.623	483.994
SC-041	27	0	424.192	380.021	473.249
SC-043	27	0	255.557	240.478	282.838

H = 176.981 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-041 vs SC-084	7709.000	13.578	<0.001	Yes
SC-041 vs SC-086	6075.000	10.700	<0.001	Yes
SC-041 vs SC-092	5465.000	9.626	<0.001	Yes
SC-041 vs SC-088	5443.000	9.587	<0.001	Yes
SC-041 vs SC-087	5069.000	8.928	<0.001	Yes
SC-041 vs SC-161	4558.000	8.028	<0.001	Yes
SC-041 vs SC-020	4398.000	7.746	<0.001	Yes
SC-041 vs SC-154	3963.000	6.980	<0.001	Yes
SC-041 vs SC-097	3795.000	6.684	<0.001	Yes
SC-041 vs SC-155	3575.000	6.297	<0.001	Yes
SC-041 vs SC-043	3120.000	5.495	0.007	Yes
SC-041 vs SC-158	2735.000	4.817	0.041	Yes
SC-041 vs SC-040	186.000	0.328	1.000	No
SC-040 vs SC-084	7523.000	13.251	<0.001	Yes
SC-040 vs SC-086	5889.000	10.373	<0.001	Yes

SC-040 vs SC-092	5279.000	9.298	<0.001	Yes
SC-040 vs SC-088	5257.000	9.259	<0.001	Yes
SC-040 vs SC-087	4883.000	8.601	<0.001	Yes
SC-040 vs SC-161	4372.000	7.701	<0.001	Yes
SC-040 vs SC-020	4212.000	7.419	<0.001	Yes
SC-040 vs SC-154	3777.000	6.653	<0.001	Yes
SC-040 vs SC-097	3609.000	6.357	<0.001	Yes
SC-040 vs SC-155	3389.000	5.969	0.001	Yes
SC-040 vs SC-043	2934.000	5.168	0.017	Yes
SC-040 vs SC-158	2549.000	4.490	0.085	No
SC-158 vs SC-084	4974.000	8.761	<0.001	Yes
SC-158 vs SC-086	3340.000	5.883	0.002	Yes
SC-158 vs SC-092	2730.000	4.808	0.042	Yes
SC-158 vs SC-088	2708.000	4.770	0.046	Yes
SC-158 vs SC-087	2334.000	4.111	0.174	No
SC-158 vs SC-161	1823.000	3.211	0.576	Do Not Test
SC-158 vs SC-020	1663.000	2.929	0.717	Do Not Test
SC-158 vs SC-154	1228.000	2.163	0.962	Do Not Test
SC-158 vs SC-097	1060.000	1.867	0.990	Do Not Test
SC-158 vs SC-155	840.000	1.480	0.999	Do Not Test
SC-158 vs SC-043	385.000	0.678	1.000	Do Not Test
SC-043 vs SC-084	4589.000	8.083	<0.001	Yes
SC-043 vs SC-086	2955.000	5.205	0.016	Yes
SC-043 vs SC-092	2345.000	4.130	0.168	No
SC-043 vs SC-088	2323.000	4.092	0.179	Do Not Test
SC-043 vs SC-087	1949.000	3.433	0.460	Do Not Test
SC-043 vs SC-161	1438.000	2.533	0.876	Do Not Test
SC-043 vs SC-020	1278.000	2.251	0.948	Do Not Test
SC-043 vs SC-154	843.000	1.485	0.999	Do Not Test
SC-043 vs SC-097	675.000	1.189	1.000	Do Not Test
SC-043 vs SC-155	455.000	0.801	1.000	Do Not Test
SC-155 vs SC-084	4134.000	7.281	<0.001	Yes
SC-155 vs SC-086	2500.000	4.403	0.101	No
SC-155 vs SC-092	1890.000	3.329	0.514	Do Not Test
SC-155 vs SC-088	1868.000	3.290	0.534	Do Not Test
SC-155 vs SC-087	1494.000	2.631	0.842	Do Not Test
SC-155 vs SC-161	983.000	1.731	0.995	Do Not Test
SC-155 vs SC-020	823.000	1.450	0.999	Do Not Test
SC-155 vs SC-154	388.000	0.683	1.000	Do Not Test
SC-155 vs SC-097	220.000	0.387	1.000	Do Not Test
SC-097 vs SC-084	3914.000	6.894	<0.001	Yes
SC-097 vs SC-086	2280.000	4.016	0.204	Do Not Test
SC-097 vs SC-092	1670.000	2.941	0.711	Do Not Test
SC-097 vs SC-088	1648.000	2.903	0.730	Do Not Test
SC-097 vs SC-087	1274.000	2.244	0.949	Do Not Test
SC-097 vs SC-161	763.000	1.344	1.000	Do Not Test
SC-097 vs SC-020	603.000	1.062	1.000	Do Not Test
SC-097 vs SC-154	168.000	0.296	1.000	Do Not Test
SC-154 vs SC-084	3746.000	6.598	<0.001	Yes
SC-154 vs SC-086	2112.000	3.720	0.320	Do Not Test
SC-154 vs SC-092	1502.000	2.646	0.837	Do Not Test
SC-154 vs SC-088	1480.000	2.607	0.851	Do Not Test
SC-154 vs SC-087	1106.000	1.948	0.985	Do Not Test
SC-154 vs SC-161	595.000	1.048	1.000	Do Not Test
SC-154 vs SC-020	435.000	0.766	1.000	Do Not Test
SC-020 vs SC-084	3311.000	5.832	0.002	Yes

SC-020 vs SC-086	1677.000	2.954	0.706	Do Not Test
SC-020 vs SC-092	1067.000	1.879	0.990	Do Not Test
SC-020 vs SC-088	1045.000	1.841	0.992	Do Not Test
SC-020 vs SC-087	671.000	1.182	1.000	Do Not Test
SC-020 vs SC-161	160.000	0.282	1.000	Do Not Test
SC-161 vs SC-084	3151.000	5.550	0.006	Yes
SC-161 vs SC-086	1517.000	2.672	0.827	Do Not Test
SC-161 vs SC-092	907.000	1.598	0.998	Do Not Test
SC-161 vs SC-088	885.000	1.559	0.998	Do Not Test
SC-161 vs SC-087	511.000	0.900	1.000	Do Not Test
SC-087 vs SC-084	2640.000	4.650	0.060	No
SC-087 vs SC-086	1006.000	1.772	0.994	Do Not Test
SC-087 vs SC-092	396.000	0.697	1.000	Do Not Test
SC-087 vs SC-088	374.000	0.659	1.000	Do Not Test
SC-088 vs SC-084	2266.000	3.991	0.212	Do Not Test
SC-088 vs SC-086	632.000	1.113	1.000	Do Not Test
SC-088 vs SC-092	22.000	0.0387	1.000	Do Not Test
SC-092 vs SC-084	2244.000	3.952	0.226	Do Not Test
SC-092 vs SC-086	610.000	1.074	1.000	Do Not Test
SC-086 vs SC-084	1634.000	2.878	0.741	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

01 December 2018 16:01:24

Data source: DA in L1 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:01:24

Data source: DA in L1 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.379	0.339	0.449
SC-084	27	0	0.351	0.286	0.412
SC-086	27	0	0.401	0.334	0.454
SC-087	27	0	0.352	0.300	0.386
SC-088	27	0	0.401	0.342	0.450
SC-092	27	0	0.431	0.324	0.471
SC-097	27	0	0.436	0.351	0.454
SC-154	27	0	0.395	0.333	0.445
SC-155	27	0	0.428	0.397	0.467
SC-158	27	0	0.375	0.328	0.409
SC-161	27	0	0.418	0.345	0.462
SC-040	27	0	0.270	0.229	0.376
SC-041	27	0	0.319	0.282	0.419
SC-043	27	0	0.396	0.347	0.459

H = 55.194 with 13 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-155 vs SC-040	4258.000	7.500	<0.001	Yes
SC-155 vs SC-087	3126.000	5.506	0.007	Yes
SC-155 vs SC-041	3034.000	5.344	0.011	Yes
SC-155 vs SC-084	2926.000	5.154	0.018	Yes
SC-155 vs SC-158	2424.000	4.269	0.131	No
SC-155 vs SC-154	1634.000	2.878	0.741	Do Not Test
SC-155 vs SC-020	1537.000	2.707	0.814	Do Not Test
SC-155 vs SC-088	1394.000	2.455	0.899	Do Not Test
SC-155 vs SC-043	1222.000	2.152	0.964	Do Not Test
SC-155 vs SC-086	1144.000	2.015	0.980	Do Not Test
SC-155 vs SC-161	1038.000	1.828	0.992	Do Not Test
SC-155 vs SC-097	895.500	1.577	0.998	Do Not Test
SC-155 vs SC-092	728.500	1.283	1.000	Do Not Test
SC-092 vs SC-040	3529.500	6.217	<0.001	Yes
SC-092 vs SC-087	2397.500	4.223	0.142	No

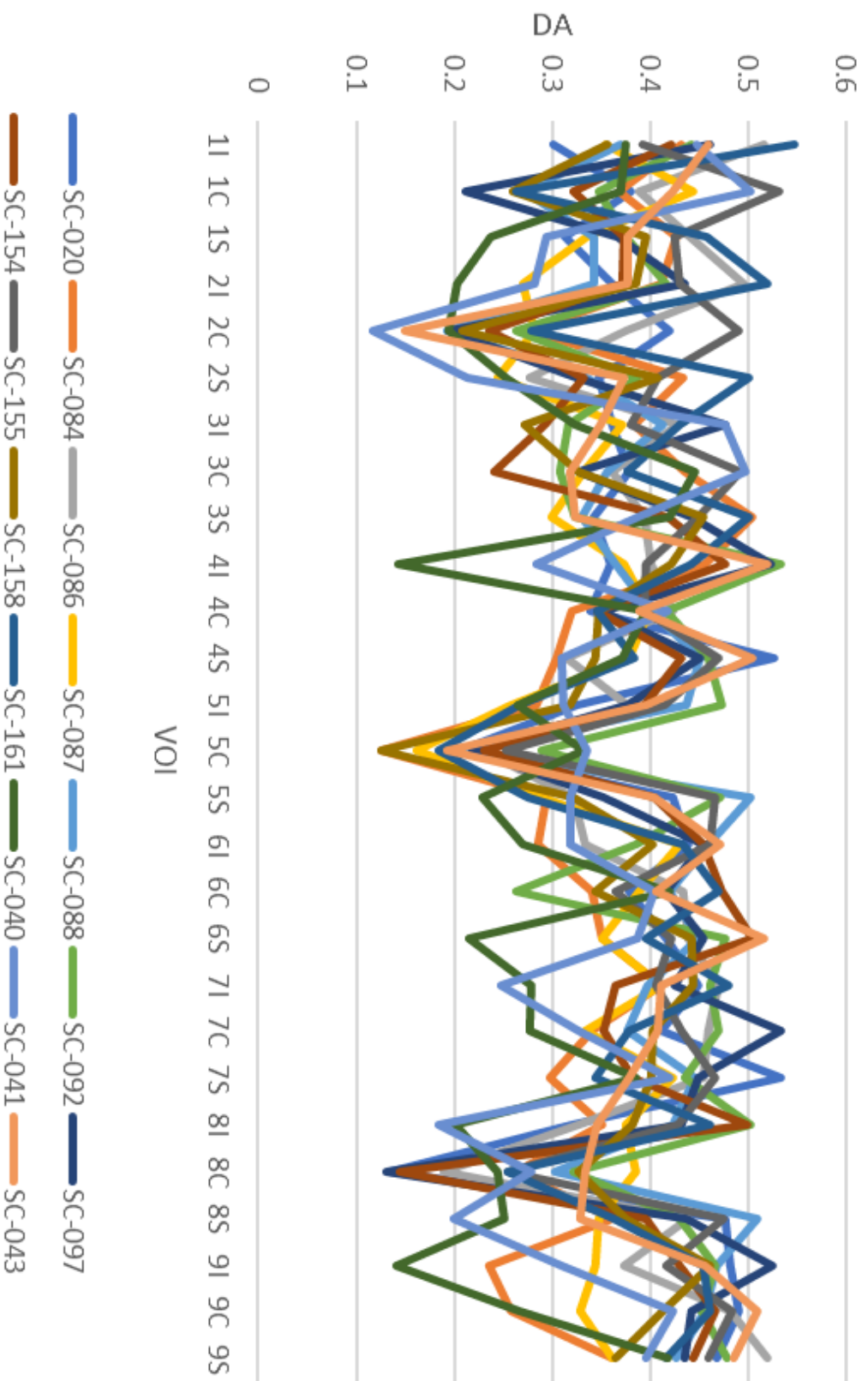
SC-092 vs SC-041	2305.500	4.061	0.189	Do Not Test
SC-092 vs SC-084	2197.500	3.871	0.257	Do Not Test
SC-092 vs SC-158	1695.500	2.986	0.690	Do Not Test
SC-092 vs SC-154	905.500	1.595	0.998	Do Not Test
SC-092 vs SC-020	808.500	1.424	0.999	Do Not Test
SC-092 vs SC-088	665.500	1.172	1.000	Do Not Test
SC-092 vs SC-043	493.500	0.869	1.000	Do Not Test
SC-092 vs SC-086	415.500	0.732	1.000	Do Not Test
SC-092 vs SC-161	309.500	0.545	1.000	Do Not Test
SC-092 vs SC-097	167.000	0.294	1.000	Do Not Test
SC-097 vs SC-040	3362.500	5.923	0.001	Yes
SC-097 vs SC-087	2230.500	3.929	0.235	Do Not Test
SC-097 vs SC-041	2138.500	3.767	0.300	Do Not Test
SC-097 vs SC-084	2030.500	3.576	0.387	Do Not Test
SC-097 vs SC-158	1528.500	2.692	0.819	Do Not Test
SC-097 vs SC-154	738.500	1.301	1.000	Do Not Test
SC-097 vs SC-020	641.500	1.130	1.000	Do Not Test
SC-097 vs SC-088	498.500	0.878	1.000	Do Not Test
SC-097 vs SC-043	326.500	0.575	1.000	Do Not Test
SC-097 vs SC-086	248.500	0.438	1.000	Do Not Test
SC-097 vs SC-161	142.500	0.251	1.000	Do Not Test
SC-161 vs SC-040	3220.000	5.672	0.004	Yes
SC-161 vs SC-087	2088.000	3.678	0.339	Do Not Test
SC-161 vs SC-041	1996.000	3.516	0.417	Do Not Test
SC-161 vs SC-084	1888.000	3.325	0.516	Do Not Test
SC-161 vs SC-158	1386.000	2.441	0.903	Do Not Test
SC-161 vs SC-154	596.000	1.050	1.000	Do Not Test
SC-161 vs SC-020	499.000	0.879	1.000	Do Not Test
SC-161 vs SC-088	356.000	0.627	1.000	Do Not Test
SC-161 vs SC-043	184.000	0.324	1.000	Do Not Test
SC-161 vs SC-086	106.000	0.187	1.000	Do Not Test
SC-086 vs SC-040	3114.000	5.485	0.007	Yes
SC-086 vs SC-087	1982.000	3.491	0.430	Do Not Test
SC-086 vs SC-041	1890.000	3.329	0.514	Do Not Test
SC-086 vs SC-084	1782.000	3.139	0.613	Do Not Test
SC-086 vs SC-158	1280.000	2.255	0.947	Do Not Test
SC-086 vs SC-154	490.000	0.863	1.000	Do Not Test
SC-086 vs SC-020	393.000	0.692	1.000	Do Not Test
SC-086 vs SC-088	250.000	0.440	1.000	Do Not Test
SC-086 vs SC-043	78.000	0.137	1.000	Do Not Test
SC-043 vs SC-040	3036.000	5.347	0.011	Yes
SC-043 vs SC-087	1904.000	3.354	0.501	Do Not Test
SC-043 vs SC-041	1812.000	3.192	0.586	Do Not Test
SC-043 vs SC-084	1704.000	3.001	0.683	Do Not Test
SC-043 vs SC-158	1202.000	2.117	0.969	Do Not Test
SC-043 vs SC-154	412.000	0.726	1.000	Do Not Test
SC-043 vs SC-020	315.000	0.555	1.000	Do Not Test
SC-043 vs SC-088	172.000	0.303	1.000	Do Not Test
SC-088 vs SC-040	2864.000	5.044	0.024	Yes
SC-088 vs SC-087	1732.000	3.051	0.658	Do Not Test
SC-088 vs SC-041	1640.000	2.889	0.736	Do Not Test
SC-088 vs SC-084	1532.000	2.698	0.817	Do Not Test
SC-088 vs SC-158	1030.000	1.814	0.993	Do Not Test
SC-088 vs SC-154	240.000	0.423	1.000	Do Not Test
SC-088 vs SC-020	143.000	0.252	1.000	Do Not Test
SC-020 vs SC-040	2721.000	4.793	0.044	Yes

SC-020 vs SC-087	1589.000	2.799	0.776	Do Not Test
SC-020 vs SC-041	1497.000	2.637	0.840	Do Not Test
SC-020 vs SC-084	1389.000	2.447	0.902	Do Not Test
SC-020 vs SC-158	887.000	1.562	0.998	Do Not Test
SC-020 vs SC-154	97.000	0.171	1.000	Do Not Test
SC-154 vs SC-040	2624.000	4.622	0.064	No
SC-154 vs SC-087	1492.000	2.628	0.844	Do Not Test
SC-154 vs SC-041	1400.000	2.466	0.896	Do Not Test
SC-154 vs SC-084	1292.000	2.276	0.943	Do Not Test
SC-154 vs SC-158	790.000	1.391	0.999	Do Not Test
SC-158 vs SC-040	1834.000	3.230	0.566	Do Not Test
SC-158 vs SC-087	702.000	1.236	1.000	Do Not Test
SC-158 vs SC-041	610.000	1.074	1.000	Do Not Test
SC-158 vs SC-084	502.000	0.884	1.000	Do Not Test
SC-084 vs SC-040	1332.000	2.346	0.928	Do Not Test
SC-084 vs SC-087	200.000	0.352	1.000	Do Not Test
SC-084 vs SC-041	108.000	0.190	1.000	Do Not Test
SC-041 vs SC-040	1224.000	2.156	0.963	Do Not Test
SC-041 vs SC-087	92.000	0.162	1.000	Do Not Test
SC-087 vs SC-040	1132.000	1.994	0.982	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 Perinatal DA



One Way Analysis of Variance

01 December 2018 16:18:04

Data source: BV/TV in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:18:04

Data source: BV/TV in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	20.286	17.081	25.659
SC-047	27	0	16.461	15.615	18.041
SC-050	27	0	11.086	10.576	12.599
SC-021	27	0	11.672	10.476	12.738
SC-054	27	0	16.752	15.480	19.517
SC-056	27	0	16.601	12.458	19.933
SC-057	27	0	16.284	12.735	20.518
SC-060	27	0	11.718	10.082	13.547
SC-061	27	0	14.437	12.079	16.527
SC-062	27	0	13.133	11.082	13.937

H = 130.100 with 9 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

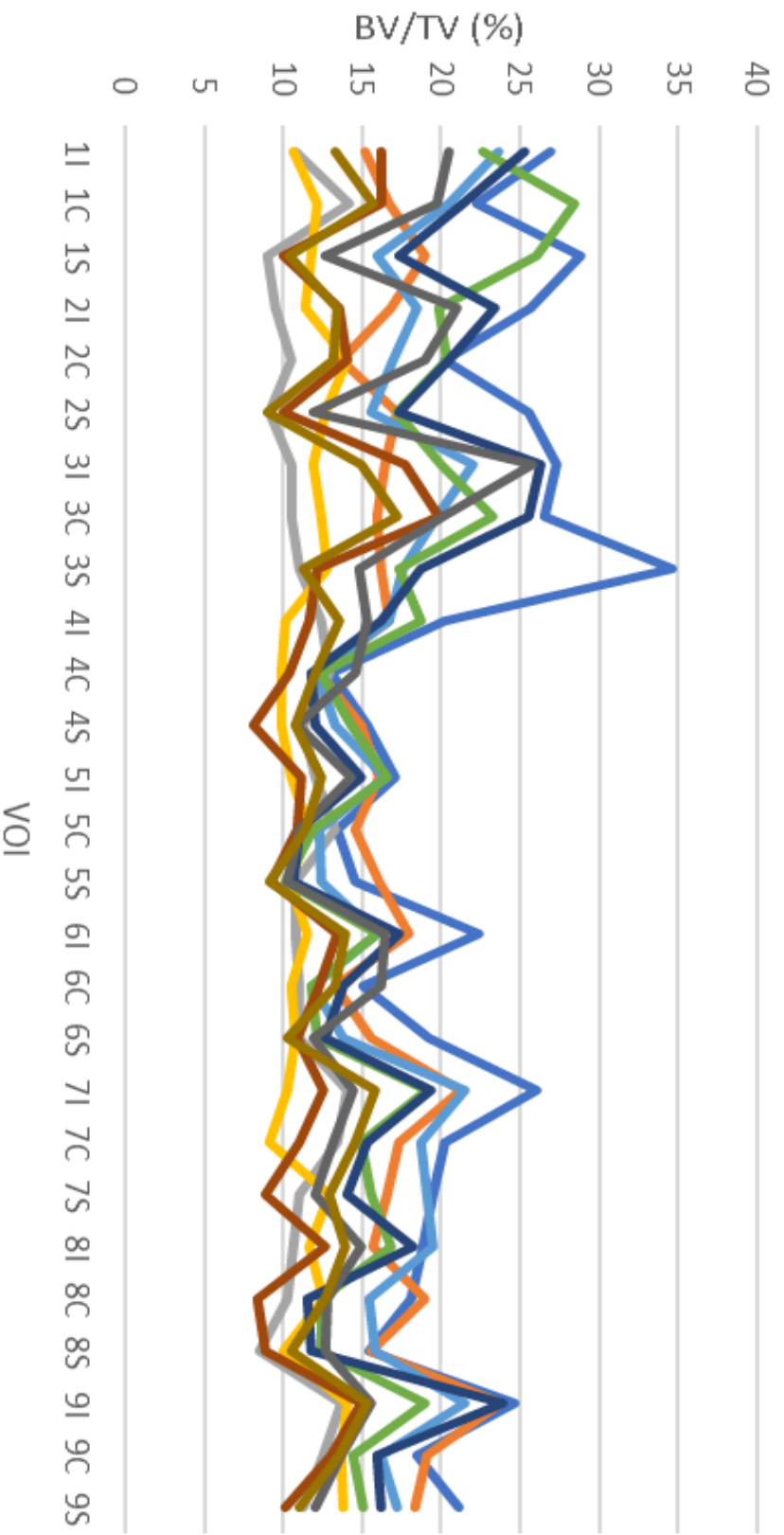
Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-050	4342.000	10.701	<0.001	Yes
SC-046 vs SC-021	4230.000	10.425	<0.001	Yes
SC-046 vs SC-060	3812.000	9.395	<0.001	Yes
SC-046 vs SC-062	3347.000	8.249	<0.001	Yes
SC-046 vs SC-061	2184.000	5.383	0.005	Yes
SC-046 vs SC-057	1362.000	3.357	0.341	No
SC-046 vs SC-056	1361.000	3.354	0.342	Do Not Test
SC-046 vs SC-047	1064.000	2.622	0.698	Do Not Test
SC-046 vs SC-054	1053.000	2.595	0.711	Do Not Test
SC-054 vs SC-050	3289.000	8.106	<0.001	Yes
SC-054 vs SC-021	3177.000	7.830	<0.001	Yes
SC-054 vs SC-060	2759.000	6.800	<0.001	Yes
SC-054 vs SC-062	2294.000	5.654	0.002	Yes
SC-054 vs SC-061	1131.000	2.787	0.618	No
SC-054 vs SC-057	309.000	0.762	1.000	Do Not Test
SC-054 vs SC-056	308.000	0.759	1.000	Do Not Test
SC-054 vs SC-047	11.000	0.0271	1.000	Do Not Test
SC-047 vs SC-050	3278.000	8.079	<0.001	Yes
SC-047 vs SC-021	3166.000	7.803	<0.001	Yes

SC-047 vs SC-060	2748.000	6.773	<0.001	Yes
SC-047 vs SC-062	2283.000	5.627	0.002	Yes
SC-047 vs SC-061	1120.000	2.760	0.631	Do Not Test
SC-047 vs SC-057	298.000	0.734	1.000	Do Not Test
SC-047 vs SC-056	297.000	0.732	1.000	Do Not Test
SC-056 vs SC-050	2981.000	7.347	<0.001	Yes
SC-056 vs SC-021	2869.000	7.071	<0.001	Yes
SC-056 vs SC-060	2451.000	6.041	<0.001	Yes
SC-056 vs SC-062	1986.000	4.895	0.018	Yes
SC-056 vs SC-061	823.000	2.028	0.918	Do Not Test
SC-056 vs SC-057	1.000	0.00246	1.000	Do Not Test
SC-057 vs SC-050	2980.000	7.344	<0.001	Yes
SC-057 vs SC-021	2868.000	7.068	<0.001	Yes
SC-057 vs SC-060	2450.000	6.038	<0.001	Yes
SC-057 vs SC-062	1985.000	4.892	0.019	Yes
SC-057 vs SC-061	822.000	2.026	0.918	Do Not Test
SC-061 vs SC-050	2158.000	5.319	0.006	Yes
SC-061 vs SC-021	2046.000	5.043	0.013	Yes
SC-061 vs SC-060	1628.000	4.012	0.123	No
SC-061 vs SC-062	1163.000	2.866	0.578	Do Not Test
SC-062 vs SC-050	995.000	2.452	0.775	No
SC-062 vs SC-021	883.000	2.176	0.877	Do Not Test
SC-062 vs SC-060	465.000	1.146	0.998	Do Not Test
SC-060 vs SC-050	530.000	1.306	0.996	Do Not Test
SC-060 vs SC-021	418.000	1.030	0.999	Do Not Test
SC-021 vs SC-050	112.000	0.276	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 4wks- 2y BV/TV



One Way Analysis of Variance

01 December 2018 16:18:43

Data source: SMI in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:18:43

Data source: SMI in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	1.169	0.957	1.358
SC-047	27	0	1.775	1.647	1.855
SC-050	27	0	1.725	1.600	1.798
SC-021	27	0	1.771	1.639	1.917
SC-054	27	0	1.403	1.296	1.555
SC-056	27	0	1.422	1.314	1.528
SC-057	27	0	1.511	1.383	1.624
SC-060	27	0	1.570	1.428	1.713
SC-061	27	0	1.573	1.375	1.665
SC-062	27	0	1.678	1.520	1.853

H = 126.708 with 9 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

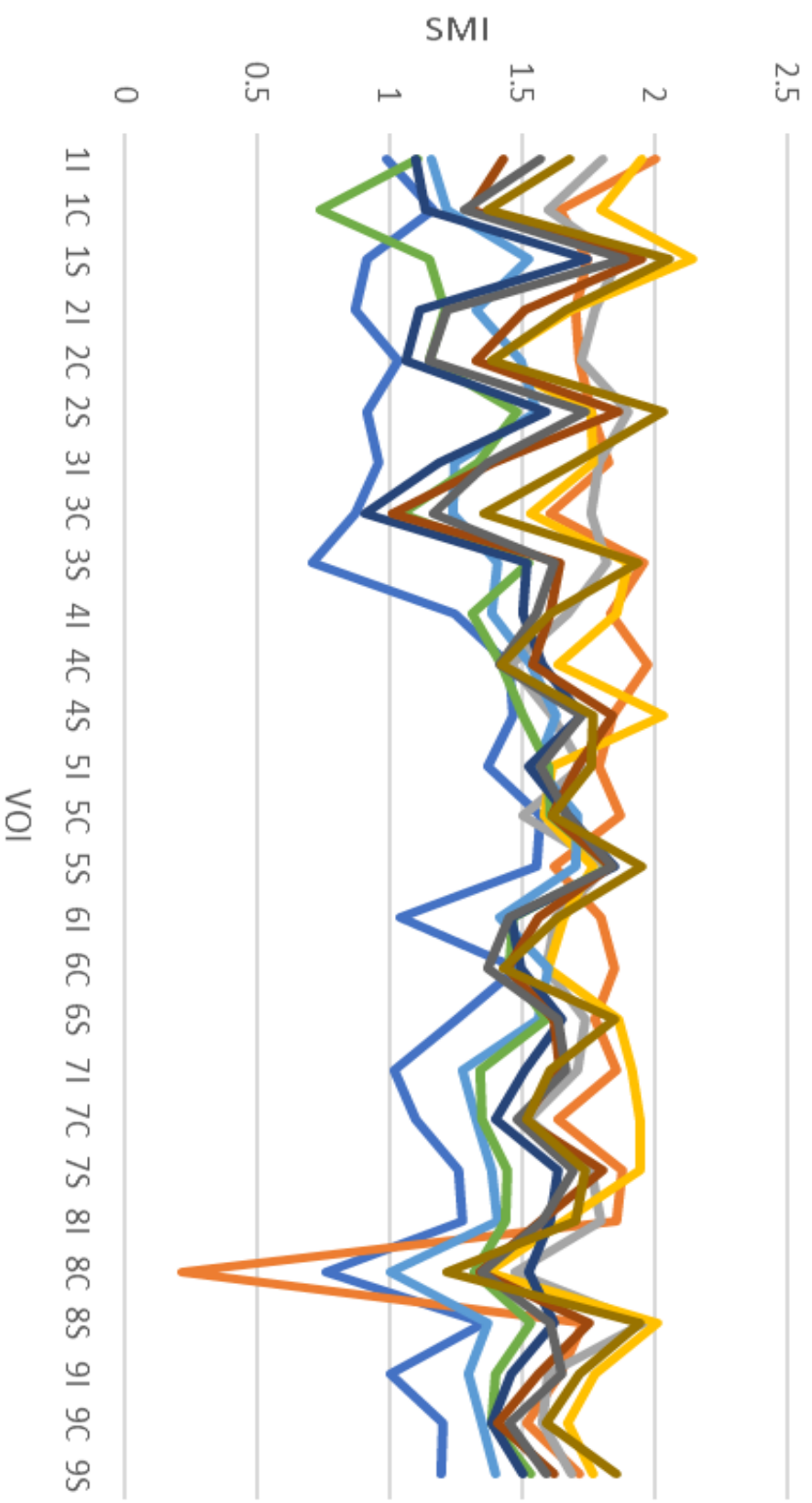
Comparison	Diff of Ranks	q	P	P<0.050
SC-047 vs SC-046	4479.000	11.039	<0.001	Yes
SC-047 vs SC-056	3327.000	8.200	<0.001	Yes
SC-047 vs SC-054	3216.000	7.926	<0.001	Yes
SC-047 vs SC-057	2558.000	6.304	<0.001	Yes
SC-047 vs SC-061	2089.000	5.148	0.009	Yes
SC-047 vs SC-060	1740.000	4.288	0.073	No
SC-047 vs SC-062	877.000	2.161	0.882	Do Not Test
SC-047 vs SC-050	518.000	1.277	0.996	Do Not Test
SC-047 vs SC-021	61.000	0.150	1.000	Do Not Test
SC-021 vs SC-046	4418.000	10.888	<0.001	Yes
SC-021 vs SC-056	3266.000	8.049	<0.001	Yes
SC-021 vs SC-054	3155.000	7.776	<0.001	Yes
SC-021 vs SC-057	2497.000	6.154	<0.001	Yes
SC-021 vs SC-061	2028.000	4.998	0.014	Yes
SC-021 vs SC-060	1679.000	4.138	0.098	Do Not Test
SC-021 vs SC-062	816.000	2.011	0.922	Do Not Test
SC-021 vs SC-050	457.000	1.126	0.999	Do Not Test
SC-050 vs SC-046	3961.000	9.762	<0.001	Yes
SC-050 vs SC-056	2809.000	6.923	<0.001	Yes

SC-050 vs SC-054	2698.000	6.649	<0.001	Yes
SC-050 vs SC-057	2040.000	5.028	0.013	Yes
SC-050 vs SC-061	1571.000	3.872	0.158	No
SC-050 vs SC-060	1222.000	3.012	0.505	Do Not Test
SC-050 vs SC-062	359.000	0.885	1.000	Do Not Test
SC-062 vs SC-046	3602.000	8.877	<0.001	Yes
SC-062 vs SC-056	2450.000	6.038	<0.001	Yes
SC-062 vs SC-054	2339.000	5.765	0.001	Yes
SC-062 vs SC-057	1681.000	4.143	0.097	No
SC-062 vs SC-061	1212.000	2.987	0.517	Do Not Test
SC-062 vs SC-060	863.000	2.127	0.892	Do Not Test
SC-060 vs SC-046	2739.000	6.750	<0.001	Yes
SC-060 vs SC-056	1587.000	3.911	0.147	No
SC-060 vs SC-054	1476.000	3.638	0.230	Do Not Test
SC-060 vs SC-057	818.000	2.016	0.921	Do Not Test
SC-060 vs SC-061	349.000	0.860	1.000	Do Not Test
SC-061 vs SC-046	2390.000	5.890	<0.001	Yes
SC-061 vs SC-056	1238.000	3.051	0.485	Do Not Test
SC-061 vs SC-054	1127.000	2.778	0.623	Do Not Test
SC-061 vs SC-057	469.000	1.156	0.998	Do Not Test
SC-057 vs SC-046	1921.000	4.734	0.027	Yes
SC-057 vs SC-056	769.000	1.895	0.946	Do Not Test
SC-057 vs SC-054	658.000	1.622	0.980	Do Not Test
SC-054 vs SC-046	1263.000	3.113	0.455	No
SC-054 vs SC-056	111.000	0.274	1.000	Do Not Test
SC-056 vs SC-046	1152.000	2.839	0.592	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 4wks -2y SMI



- SC-046
- SC-047
- SC-050
- SC-021
- SC-054
- SC-056
- SC-057
- SC-060
- SC-061
- SC-062

One Way Analysis of Variance

01 December 2018 16:19:41

Data source: Tb.Th in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:19:41

Data source: Tb.Th in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	77.038	72.694	93.046
SC-047	27	0	99.050	92.741	107.778
SC-050	27	0	75.339	72.105	84.382
SC-021	27	0	99.391	94.300	105.378
SC-054	27	0	109.114	99.919	125.175
SC-056	27	0	112.079	106.016	127.771
SC-057	27	0	122.441	115.984	145.500
SC-060	27	0	97.417	89.433	107.611
SC-061	27	0	124.971	113.333	158.476
SC-062	27	0	99.151	90.381	116.303

H = 144.696 with 9 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

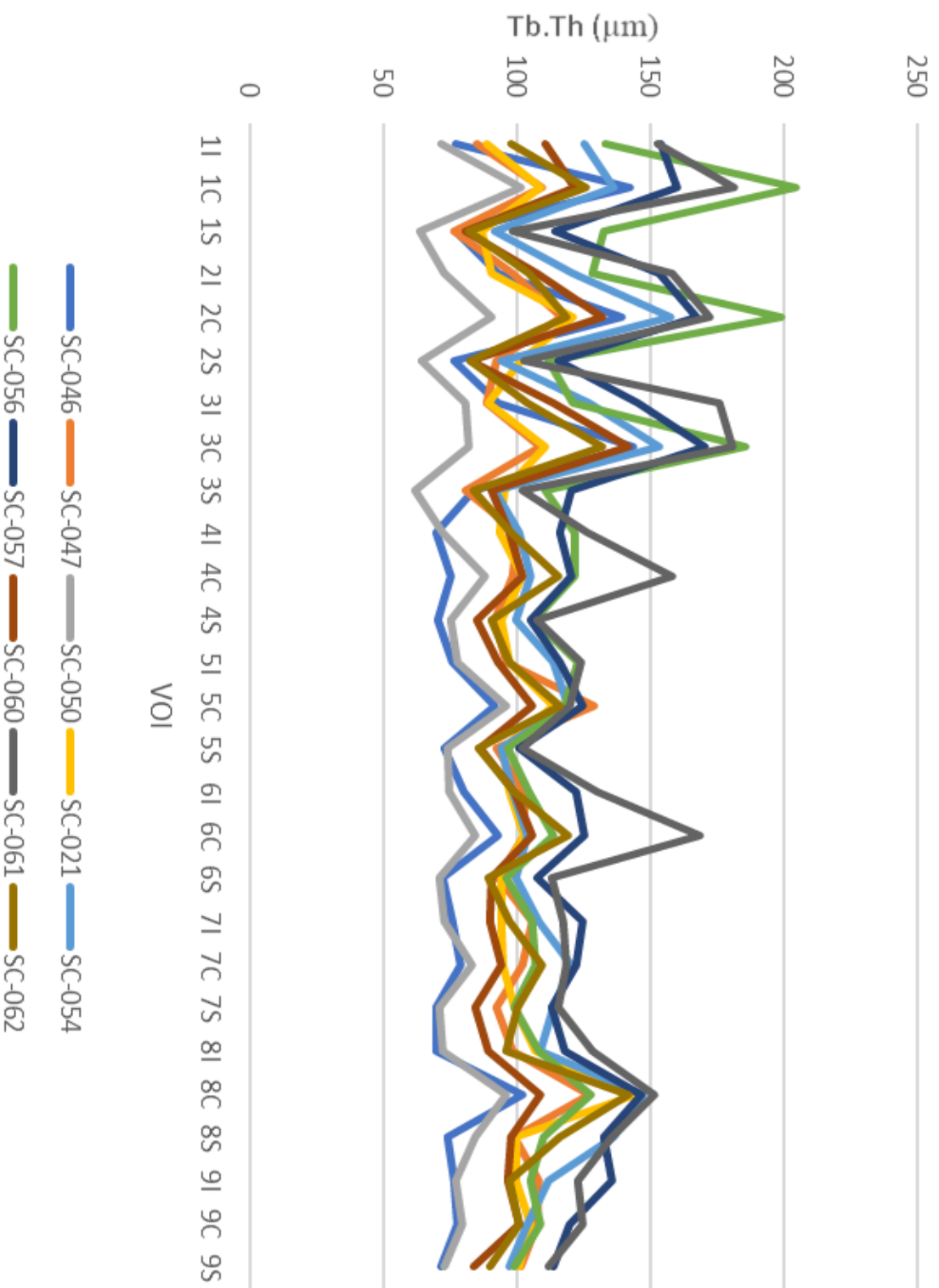
Comparison	Diff of Ranks	q	P	P<0.050
SC-061 vs SC-050	4827.000	11.897	<0.001	Yes
SC-061 vs SC-046	4172.000	10.282	<0.001	Yes
SC-061 vs SC-060	2688.000	6.625	<0.001	Yes
SC-061 vs SC-047	2541.000	6.262	<0.001	Yes
SC-061 vs SC-021	2533.000	6.243	<0.001	Yes
SC-061 vs SC-062	2271.000	5.597	0.002	Yes
SC-061 vs SC-054	1246.000	3.071	0.476	No
SC-061 vs SC-056	745.000	1.836	0.956	Do Not Test
SC-061 vs SC-057	12.000	0.0296	1.000	Do Not Test
SC-057 vs SC-050	4815.000	11.867	<0.001	Yes
SC-057 vs SC-046	4160.000	10.253	<0.001	Yes
SC-057 vs SC-060	2676.000	6.595	<0.001	Yes
SC-057 vs SC-047	2529.000	6.233	<0.001	Yes
SC-057 vs SC-021	2521.000	6.213	<0.001	Yes
SC-057 vs SC-062	2259.000	5.567	0.002	Yes
SC-057 vs SC-054	1234.000	3.041	0.490	Do Not Test
SC-057 vs SC-056	733.000	1.807	0.960	Do Not Test
SC-056 vs SC-050	4082.000	10.060	<0.001	Yes
SC-056 vs SC-046	3427.000	8.446	<0.001	Yes

SC-056 vs SC-060	1943.000	4.789	0.024	Yes
SC-056 vs SC-047	1796.000	4.426	0.055	No
SC-056 vs SC-021	1788.000	4.407	0.057	Do Not Test
SC-056 vs SC-062	1526.000	3.761	0.190	Do Not Test
SC-056 vs SC-054	501.000	1.235	0.997	Do Not Test
SC-054 vs SC-050	3581.000	8.826	<0.001	Yes
SC-054 vs SC-046	2926.000	7.211	<0.001	Yes
SC-054 vs SC-060	1442.000	3.554	0.260	No
SC-054 vs SC-047	1295.000	3.192	0.417	Do Not Test
SC-054 vs SC-021	1287.000	3.172	0.426	Do Not Test
SC-054 vs SC-062	1025.000	2.526	0.743	Do Not Test
SC-062 vs SC-050	2556.000	6.299	<0.001	Yes
SC-062 vs SC-046	1901.000	4.685	0.031	Yes
SC-062 vs SC-060	417.000	1.028	0.999	Do Not Test
SC-062 vs SC-047	270.000	0.665	1.000	Do Not Test
SC-062 vs SC-021	262.000	0.646	1.000	Do Not Test
SC-021 vs SC-050	2294.000	5.654	0.002	Yes
SC-021 vs SC-046	1639.000	4.039	0.117	No
SC-021 vs SC-060	155.000	0.382	1.000	Do Not Test
SC-021 vs SC-047	8.000	0.0197	1.000	Do Not Test
SC-047 vs SC-050	2286.000	5.634	0.002	Yes
SC-047 vs SC-046	1631.000	4.020	0.122	Do Not Test
SC-047 vs SC-060	147.000	0.362	1.000	Do Not Test
SC-060 vs SC-050	2139.000	5.272	0.007	Yes
SC-060 vs SC-046	1484.000	3.657	0.223	Do Not Test
SC-046 vs SC-050	655.000	1.614	0.981	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 4wks-2y Tb.Th



One Way Analysis of Variance

01 December 2018 16:20:03

Data source: Tb.N in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:20:03

Data source: Tb.N in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.00266	0.00185	0.00296
SC-047	27	0	0.00170	0.00153	0.00181
SC-050	27	0	0.00147	0.00131	0.00156
SC-021	27	0	0.00112	0.00106	0.00130
SC-054	27	0	0.00155	0.00128	0.00175
SC-056	27	0	0.00139	0.00112	0.00157
SC-057	27	0	0.00133	0.00115	0.00153
SC-060	27	0	0.00121	0.00107	0.00135
SC-061	27	0	0.00111	0.00101	0.00127
SC-062	27	0	0.00128	0.00110	0.00136

H = 131.687 with 9 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-061	4832.500	11.910	<0.001	Yes
SC-046 vs SC-021	4672.500	11.516	<0.001	Yes
SC-046 vs SC-060	4155.500	10.242	<0.001	Yes
SC-046 vs SC-062	3925.500	9.675	<0.001	Yes
SC-046 vs SC-057	3324.000	8.192	<0.001	Yes
SC-046 vs SC-056	2890.500	7.124	<0.001	Yes
SC-046 vs SC-050	2347.500	5.786	<0.001	Yes
SC-046 vs SC-054	2193.000	5.405	0.004	Yes
SC-046 vs SC-047	1224.000	3.017	0.503	No
SC-047 vs SC-061	3608.500	8.893	<0.001	Yes
SC-047 vs SC-021	3448.500	8.499	<0.001	Yes
SC-047 vs SC-060	2931.500	7.225	<0.001	Yes
SC-047 vs SC-062	2701.500	6.658	<0.001	Yes
SC-047 vs SC-057	2100.000	5.176	0.009	Yes
SC-047 vs SC-056	1666.500	4.107	0.103	No
SC-047 vs SC-050	1123.500	2.769	0.627	Do Not Test
SC-047 vs SC-054	969.000	2.388	0.801	Do Not Test
SC-054 vs SC-061	2639.500	6.505	<0.001	Yes
SC-054 vs SC-021	2479.500	6.111	<0.001	Yes

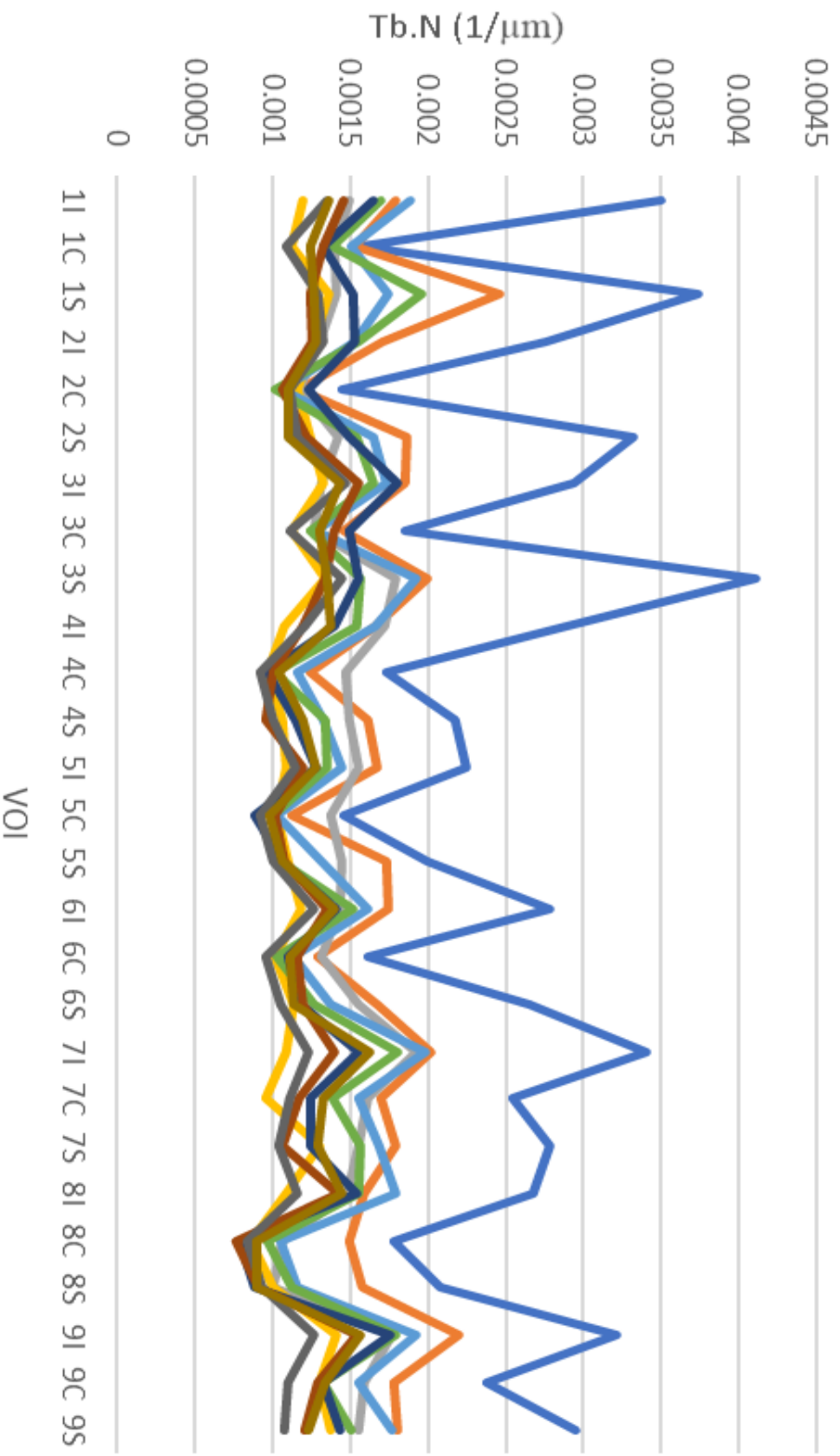
SC-054 vs SC-060	1962.500	4.837	0.021	Yes
SC-054 vs SC-062	1732.500	4.270	0.075	No
SC-054 vs SC-057	1131.000	2.787	0.618	Do Not Test
SC-054 vs SC-056	697.500	1.719	0.971	Do Not Test
SC-054 vs SC-050	154.500	0.381	1.000	Do Not Test
SC-050 vs SC-061	2485.000	6.124	<0.001	Yes
SC-050 vs SC-021	2325.000	5.730	0.001	Yes
SC-050 vs SC-060	1808.000	4.456	0.051	No
SC-050 vs SC-062	1578.000	3.889	0.153	Do Not Test
SC-050 vs SC-057	976.500	2.407	0.794	Do Not Test
SC-050 vs SC-056	543.000	1.338	0.995	Do Not Test
SC-056 vs SC-061	1942.000	4.786	0.024	Yes
SC-056 vs SC-021	1782.000	4.392	0.059	No
SC-056 vs SC-060	1265.000	3.118	0.453	Do Not Test
SC-056 vs SC-062	1035.000	2.551	0.731	Do Not Test
SC-056 vs SC-057	433.500	1.068	0.999	Do Not Test
SC-057 vs SC-061	1508.500	3.718	0.203	No
SC-057 vs SC-021	1348.500	3.323	0.356	Do Not Test
SC-057 vs SC-060	831.500	2.049	0.913	Do Not Test
SC-057 vs SC-062	601.500	1.482	0.989	Do Not Test
SC-062 vs SC-061	907.000	2.235	0.858	Do Not Test
SC-062 vs SC-021	747.000	1.841	0.955	Do Not Test
SC-062 vs SC-060	230.000	0.567	1.000	Do Not Test
SC-060 vs SC-061	677.000	1.669	0.976	Do Not Test
SC-060 vs SC-021	517.000	1.274	0.996	Do Not Test
SC-021 vs SC-061	160.000	0.394	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

Youngest individuals seem to differ from almost all others – enough to imply they don't belong within this age group? Can you really take only two individuals away?

L1 4wks-2y Tb.N



- SC-046
- SC-047
- SC-050
- SC-021
- SC-054
- SC-056
- SC-057
- SC-060
- SC-061
- SC-062

One Way Analysis of Variance

01 December 2018 16:20:25

Data source: Tb.Sp in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:20:25

Data source: Tb.Sp in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	293.839	252.107	397.306
SC-047	27	0	362.050	329.434	415.293
SC-050	27	0	420.377	391.346	462.585
SC-021	27	0	572.689	529.572	610.055
SC-054	27	0	438.450	407.724	513.891
SC-056	27	0	510.033	452.077	599.746
SC-057	27	0	517.806	448.569	567.875
SC-060	27	0	543.385	482.569	585.450
SC-061	27	0	623.906	561.666	708.944
SC-062	27	0	492.467	468.604	573.875

H = 139.319 with 9 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

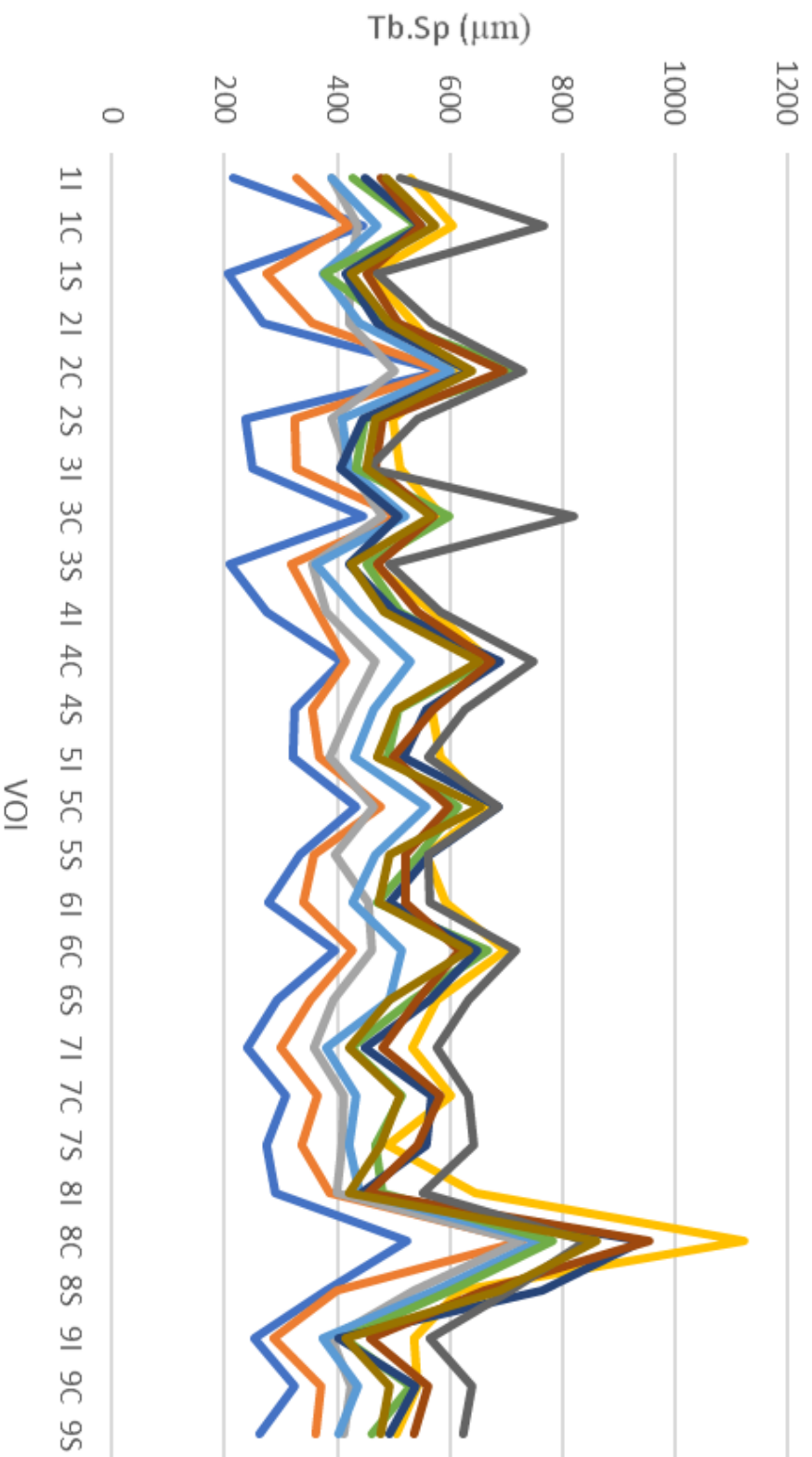
Comparison	Diff of Ranks	q	P	P<0.050
SC-061 vs SC-046	4733.000	11.665	<0.001	Yes
SC-061 vs SC-047	4192.000	10.332	<0.001	Yes
SC-061 vs SC-050	3472.000	8.557	<0.001	Yes
SC-061 vs SC-054	2786.000	6.866	<0.001	Yes
SC-061 vs SC-062	1638.000	4.037	0.118	No
SC-061 vs SC-056	1568.000	3.864	0.160	Do Not Test
SC-061 vs SC-057	1389.000	3.423	0.312	Do Not Test
SC-061 vs SC-060	992.000	2.445	0.778	Do Not Test
SC-061 vs SC-021	475.000	1.171	0.998	Do Not Test
SC-021 vs SC-046	4258.000	10.494	<0.001	Yes
SC-021 vs SC-047	3717.000	9.161	<0.001	Yes
SC-021 vs SC-050	2997.000	7.386	<0.001	Yes
SC-021 vs SC-054	2311.000	5.696	0.001	Yes
SC-021 vs SC-062	1163.000	2.866	0.578	Do Not Test
SC-021 vs SC-056	1093.000	2.694	0.664	Do Not Test
SC-021 vs SC-057	914.000	2.253	0.852	Do Not Test
SC-021 vs SC-060	517.000	1.274	0.996	Do Not Test
SC-060 vs SC-046	3741.000	9.220	<0.001	Yes
SC-060 vs SC-047	3200.000	7.887	<0.001	Yes

SC-060 vs SC-050	2480.000	6.112	<0.001	Yes
SC-060 vs SC-054	1794.000	4.421	0.055	No
SC-060 vs SC-062	646.000	1.592	0.983	Do Not Test
SC-060 vs SC-056	576.000	1.420	0.992	Do Not Test
SC-060 vs SC-057	397.000	0.978	1.000	Do Not Test
SC-057 vs SC-046	3344.000	8.242	<0.001	Yes
SC-057 vs SC-047	2803.000	6.908	<0.001	Yes
SC-057 vs SC-050	2083.000	5.134	0.010	Yes
SC-057 vs SC-054	1397.000	3.443	0.304	Do Not Test
SC-057 vs SC-062	249.000	0.614	1.000	Do Not Test
SC-057 vs SC-056	179.000	0.441	1.000	Do Not Test
SC-056 vs SC-046	3165.000	7.800	<0.001	Yes
SC-056 vs SC-047	2624.000	6.467	<0.001	Yes
SC-056 vs SC-050	1904.000	4.693	0.030	Yes
SC-056 vs SC-054	1218.000	3.002	0.510	Do Not Test
SC-056 vs SC-062	70.000	0.173	1.000	Do Not Test
SC-062 vs SC-046	3095.000	7.628	<0.001	Yes
SC-062 vs SC-047	2554.000	6.295	<0.001	Yes
SC-062 vs SC-050	1834.000	4.520	0.045	Yes
SC-062 vs SC-054	1148.000	2.829	0.597	Do Not Test
SC-054 vs SC-046	1947.000	4.799	0.023	Yes
SC-054 vs SC-047	1406.000	3.465	0.295	No
SC-054 vs SC-050	686.000	1.691	0.974	Do Not Test
SC-050 vs SC-046	1261.000	3.108	0.457	No
SC-050 vs SC-047	720.000	1.774	0.964	Do Not Test
SC-047 vs SC-046	541.000	1.333	0.995	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 4wks-2y Tb.Sp



One Way Analysis of Variance

01 December 2018 16:20:43

Data source: DA in L1 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.065)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 16:20:43

Data source: DA in L1 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.320	0.296	0.381
SC-047	27	0	0.396	0.340	0.437
SC-050	27	0	0.370	0.279	0.420
SC-021	27	0	0.356	0.290	0.411
SC-054	27	0	0.314	0.276	0.410
SC-056	27	0	0.336	0.215	0.430
SC-057	27	0	0.321	0.255	0.431
SC-060	27	0	0.392	0.253	0.479
SC-061	27	0	0.249	0.218	0.362
SC-062	27	0	0.340	0.223	0.430

H = 19.564 with 9 degrees of freedom. (P = 0.021)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.021)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

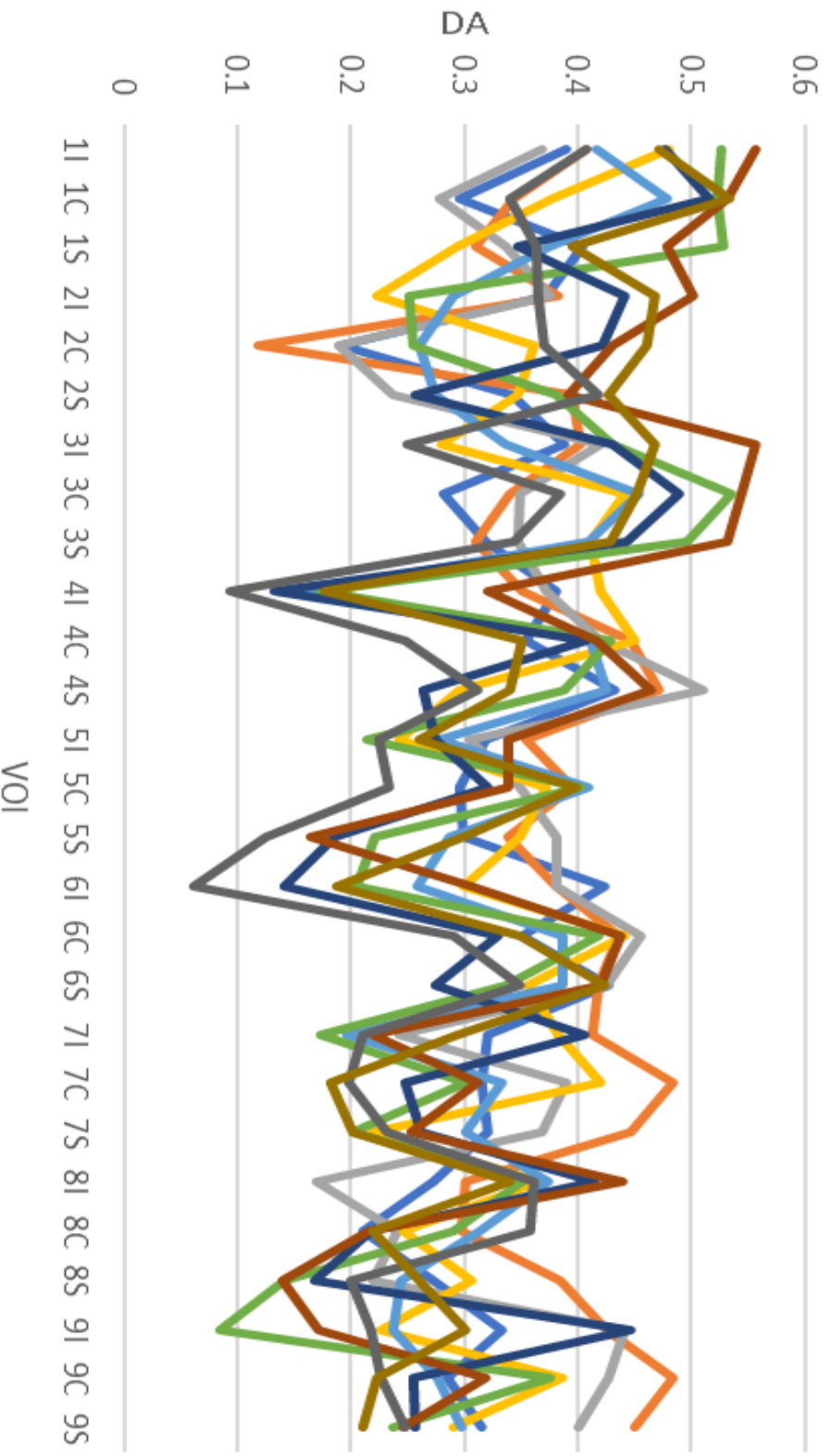
Comparison	Diff of Ranks	q	P	P<0.050
SC-047 vs SC-061	2261.000	5.572	0.002	Yes
SC-047 vs SC-054	1268.000	3.125	0.449	No
SC-047 vs SC-046	1268.000	3.125	0.449	Do Not Test
SC-047 vs SC-056	1224.500	3.018	0.502	Do Not Test
SC-047 vs SC-057	1195.000	2.945	0.539	Do Not Test
SC-047 vs SC-062	1015.500	2.503	0.753	Do Not Test
SC-047 vs SC-021	918.000	2.262	0.849	Do Not Test
SC-047 vs SC-050	797.000	1.964	0.932	Do Not Test
SC-047 vs SC-060	398.000	0.981	1.000	Do Not Test
SC-060 vs SC-061	1863.000	4.592	0.038	Yes
SC-060 vs SC-054	870.000	2.144	0.887	Do Not Test
SC-060 vs SC-046	870.000	2.144	0.887	Do Not Test
SC-060 vs SC-056	826.500	2.037	0.916	Do Not Test
SC-060 vs SC-057	797.000	1.964	0.932	Do Not Test
SC-060 vs SC-062	617.500	1.522	0.987	Do Not Test
SC-060 vs SC-021	520.000	1.282	0.996	Do Not Test
SC-060 vs SC-050	399.000	0.983	1.000	Do Not Test

SC-050 vs SC-061	1464.000	3.608	0.240	No
SC-050 vs SC-054	471.000	1.161	0.998	Do Not Test
SC-050 vs SC-046	471.000	1.161	0.998	Do Not Test
SC-050 vs SC-056	427.500	1.054	0.999	Do Not Test
SC-050 vs SC-057	398.000	0.981	1.000	Do Not Test
SC-050 vs SC-062	218.500	0.539	1.000	Do Not Test
SC-050 vs SC-021	121.000	0.298	1.000	Do Not Test
SC-021 vs SC-061	1343.000	3.310	0.362	Do Not Test
SC-021 vs SC-054	350.000	0.863	1.000	Do Not Test
SC-021 vs SC-046	350.000	0.863	1.000	Do Not Test
SC-021 vs SC-056	306.500	0.755	1.000	Do Not Test
SC-021 vs SC-057	277.000	0.683	1.000	Do Not Test
SC-021 vs SC-062	97.500	0.240	1.000	Do Not Test
SC-062 vs SC-061	1245.500	3.070	0.476	Do Not Test
SC-062 vs SC-054	252.500	0.622	1.000	Do Not Test
SC-062 vs SC-046	252.500	0.622	1.000	Do Not Test
SC-062 vs SC-056	209.000	0.515	1.000	Do Not Test
SC-062 vs SC-057	179.500	0.442	1.000	Do Not Test
SC-057 vs SC-061	1066.000	2.627	0.696	Do Not Test
SC-057 vs SC-054	73.000	0.180	1.000	Do Not Test
SC-057 vs SC-046	73.000	0.180	1.000	Do Not Test
SC-057 vs SC-056	29.500	0.0727	1.000	Do Not Test
SC-056 vs SC-061	1036.500	2.555	0.730	Do Not Test
SC-056 vs SC-054	43.500	0.107	1.000	Do Not Test
SC-056 vs SC-046	43.500	0.107	1.000	Do Not Test
SC-046 vs SC-061	993.000	2.447	0.777	Do Not Test
SC-046 vs SC-054	0.000	0.000	1.000	Do Not Test
SC-054 vs SC-061	993.000	2.447	0.777	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 4wks-2y DA



- SC-046
- SC-047
- SC-050
- SC-021
- SC-054
- SC-056
- SC-057
- SC-060
- SC-061
- SC-062

One Way Analysis of Variance

14 December 2018 10:53:57

Data source: BTVV in L1 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 10:53:57

Data source: BTVV in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	13.432	12.301	14.835
SC-002	27	0	14.204	13.071	15.716
SC-025	27	0	14.715	13.039	19.322
SC-065	27	0	14.271	12.284	18.244
SC-066	27	0	12.520	11.061	14.775
SC-010	27	0	14.713	12.822	17.178
SC-026	27	0	12.987	12.038	14.597
SC-229	27	0	13.102	11.037	15.687

H = 19.656 with 7 degrees of freedom. (P = 0.006)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.006)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

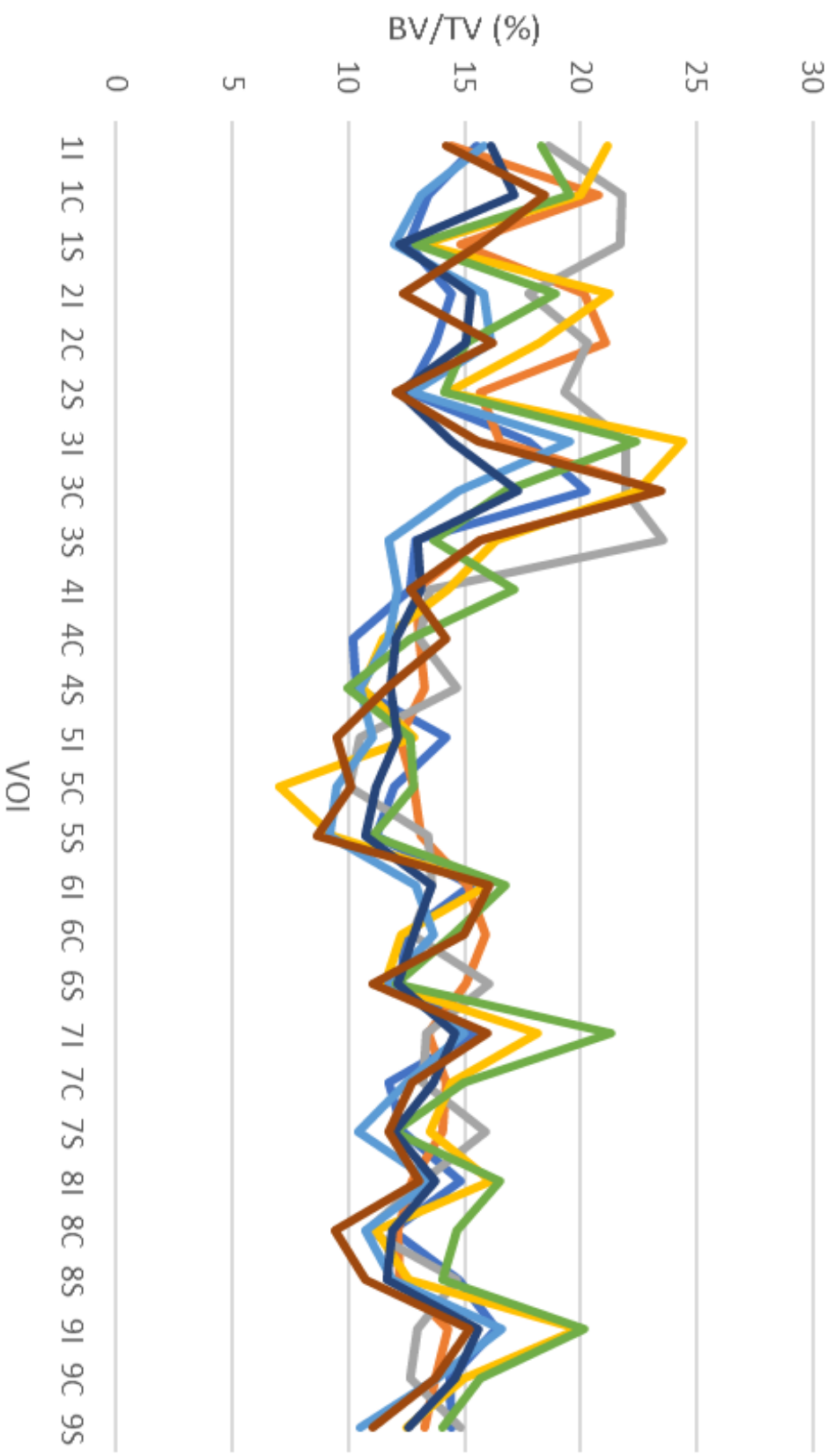
Comparison	Diff of Ranks	q	P	P<0.050
SC-025 vs SC-066	1405.000	4.326	0.046	Yes
SC-025 vs SC-026	1043.000	3.212	0.310	No
SC-025 vs SC-229	987.000	3.039	0.383	Do Not Test
SC-025 vs SC-063	876.000	2.697	0.545	Do Not Test
SC-025 vs SC-065	312.000	0.961	0.997	Do Not Test
SC-025 vs SC-002	136.000	0.419	1.000	Do Not Test
SC-025 vs SC-010	13.000	0.0400	1.000	Do Not Test
SC-010 vs SC-066	1392.000	4.286	0.050	Yes
SC-010 vs SC-026	1030.000	3.172	0.326	Do Not Test
SC-010 vs SC-229	974.000	2.999	0.401	Do Not Test
SC-010 vs SC-063	863.000	2.657	0.565	Do Not Test
SC-010 vs SC-065	299.000	0.921	0.998	Do Not Test
SC-010 vs SC-002	123.000	0.379	1.000	Do Not Test
SC-002 vs SC-066	1269.000	3.908	0.104	No
SC-002 vs SC-026	907.000	2.793	0.499	Do Not Test
SC-002 vs SC-229	851.000	2.620	0.583	Do Not Test
SC-002 vs SC-063	740.000	2.279	0.744	Do Not Test
SC-002 vs SC-065	176.000	0.542	1.000	Do Not Test
SC-065 vs SC-066	1093.000	3.366	0.251	Do Not Test
SC-065 vs SC-026	731.000	2.251	0.756	Do Not Test
SC-065 vs SC-229	675.000	2.079	0.825	Do Not Test

SC-065 vs SC-063	564.000	1.737	0.925	Do Not Test
SC-063 vs SC-066	529.000	1.629	0.946	Do Not Test
SC-063 vs SC-026	167.000	0.514	1.000	Do Not Test
SC-063 vs SC-229	111.000	0.342	1.000	Do Not Test
SC-229 vs SC-066	418.000	1.287	0.985	Do Not Test
SC-229 vs SC-026	56.000	0.172	1.000	Do Not Test
SC-026 vs SC-066	362.000	1.115	0.994	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ BV/TV



- SC-063
- SC-002
- SC-025
- SC-065
- SC-066
- SC-010
- SC-026
- SC-229

One Way Analysis of Variance

14 December 2018 10:55:11

Data source: SMI in L1 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 10:55:11

Data source: SMI in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	1.508	1.272	1.632
SC-002	27	0	1.724	1.281	1.763
SC-025	27	0	1.365	1.246	1.511
SC-065	27	0	1.568	1.399	1.697
SC-066	27	0	1.618	1.361	1.736
SC-010	27	0	1.600	1.332	1.806
SC-026	27	0	1.599	1.439	1.698
SC-229	27	0	1.838	1.505	1.958

H = 29.447 with 7 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

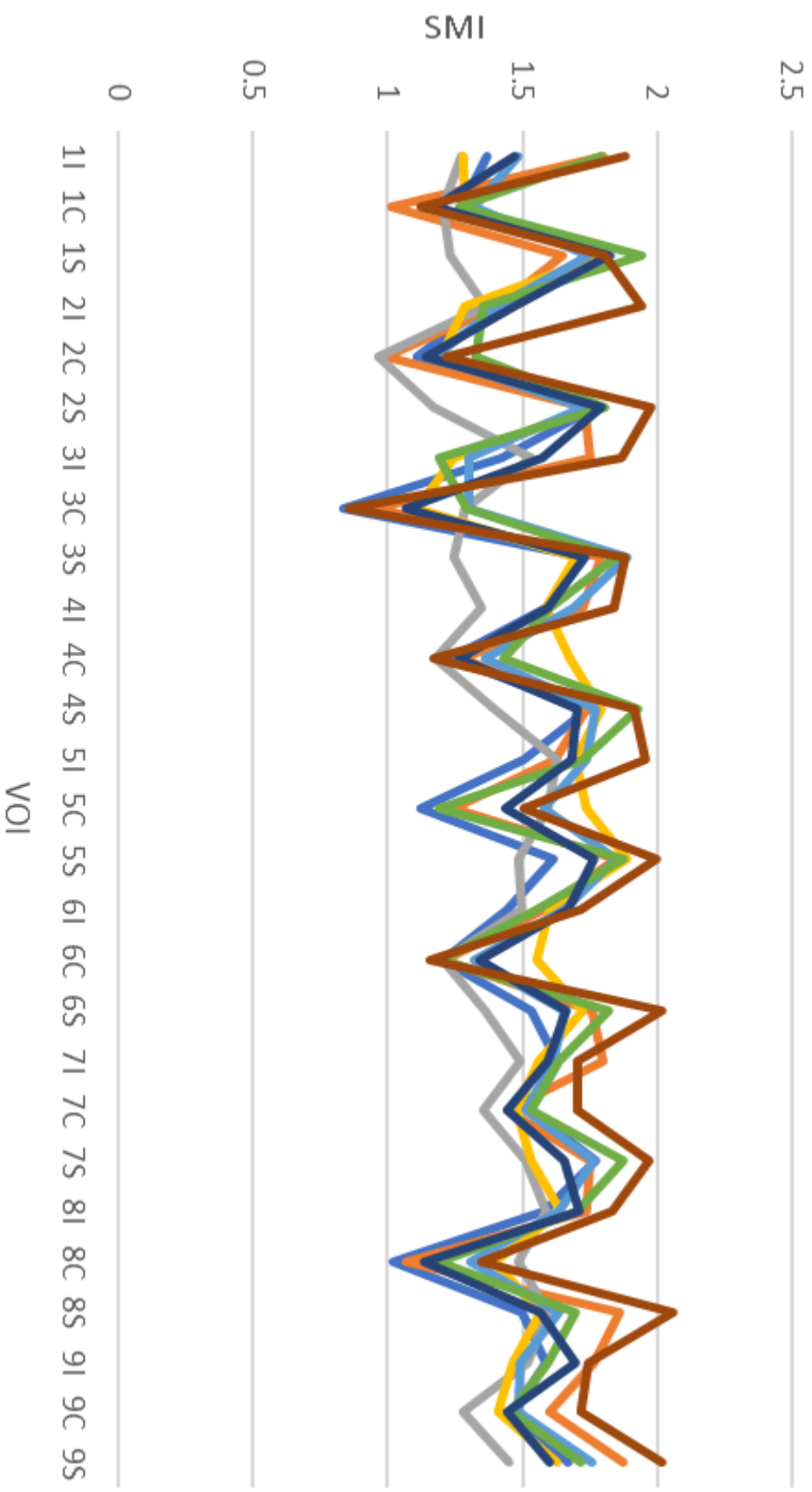
Comparison	Diff of Ranks	q	P	P<0.050
SC-229 vs SC-025	2311.000	7.116	<0.001	Yes
SC-229 vs SC-063	1642.000	5.056	0.008	Yes
SC-229 vs SC-026	1281.000	3.945	0.098	No
SC-229 vs SC-065	1200.000	3.695	0.151	Do Not Test
SC-229 vs SC-066	1015.000	3.125	0.345	Do Not Test
SC-229 vs SC-010	907.000	2.793	0.499	Do Not Test
SC-229 vs SC-002	840.000	2.587	0.600	Do Not Test
SC-002 vs SC-025	1471.000	4.530	0.030	Yes
SC-002 vs SC-063	802.000	2.470	0.656	No
SC-002 vs SC-026	441.000	1.358	0.980	Do Not Test
SC-002 vs SC-065	360.000	1.109	0.994	Do Not Test
SC-002 vs SC-066	175.000	0.539	1.000	Do Not Test
SC-002 vs SC-010	67.000	0.206	1.000	Do Not Test
SC-010 vs SC-025	1404.000	4.323	0.046	Yes
SC-010 vs SC-063	735.000	2.263	0.751	Do Not Test
SC-010 vs SC-026	374.000	1.152	0.992	Do Not Test
SC-010 vs SC-065	293.000	0.902	0.998	Do Not Test
SC-010 vs SC-066	108.000	0.333	1.000	Do Not Test
SC-066 vs SC-025	1296.000	3.991	0.090	No
SC-066 vs SC-063	627.000	1.931	0.874	Do Not Test
SC-066 vs SC-026	266.000	0.819	0.999	Do Not Test

SC-066 vs SC-065	185.000	0.570	1.000	Do Not Test
SC-065 vs SC-025	1111.000	3.421	0.232	Do Not Test
SC-065 vs SC-063	442.000	1.361	0.980	Do Not Test
SC-065 vs SC-026	81.000	0.249	1.000	Do Not Test
SC-026 vs SC-025	1030.000	3.172	0.326	Do Not Test
SC-026 vs SC-063	361.000	1.112	0.994	Do Not Test
SC-063 vs SC-025	669.000	2.060	0.831	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ SMI



- SC-063
- SC-002
- SC-025
- SC-065
- SC-066
- SC-010
- SC-026
- SC-229

One Way Analysis of Variance

14 December 2018 10:56:22

Data source: Tb.Th in L1 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 10:56:22

Data source: Tb.Th in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	113.085	108.179	133.444
SC-002	27	0	99.204	93.397	113.689
SC-025	27	0	105.150	97.067	123.708
SC-065	27	0	134.374	124.513	165.107
SC-066	27	0	122.981	113.236	141.168
SC-010	27	0	117.233	107.468	154.849
SC-026	27	0	111.575	107.824	125.227
SC-229	27	0	107.060	96.884	125.281

H = 60.139 with 7 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

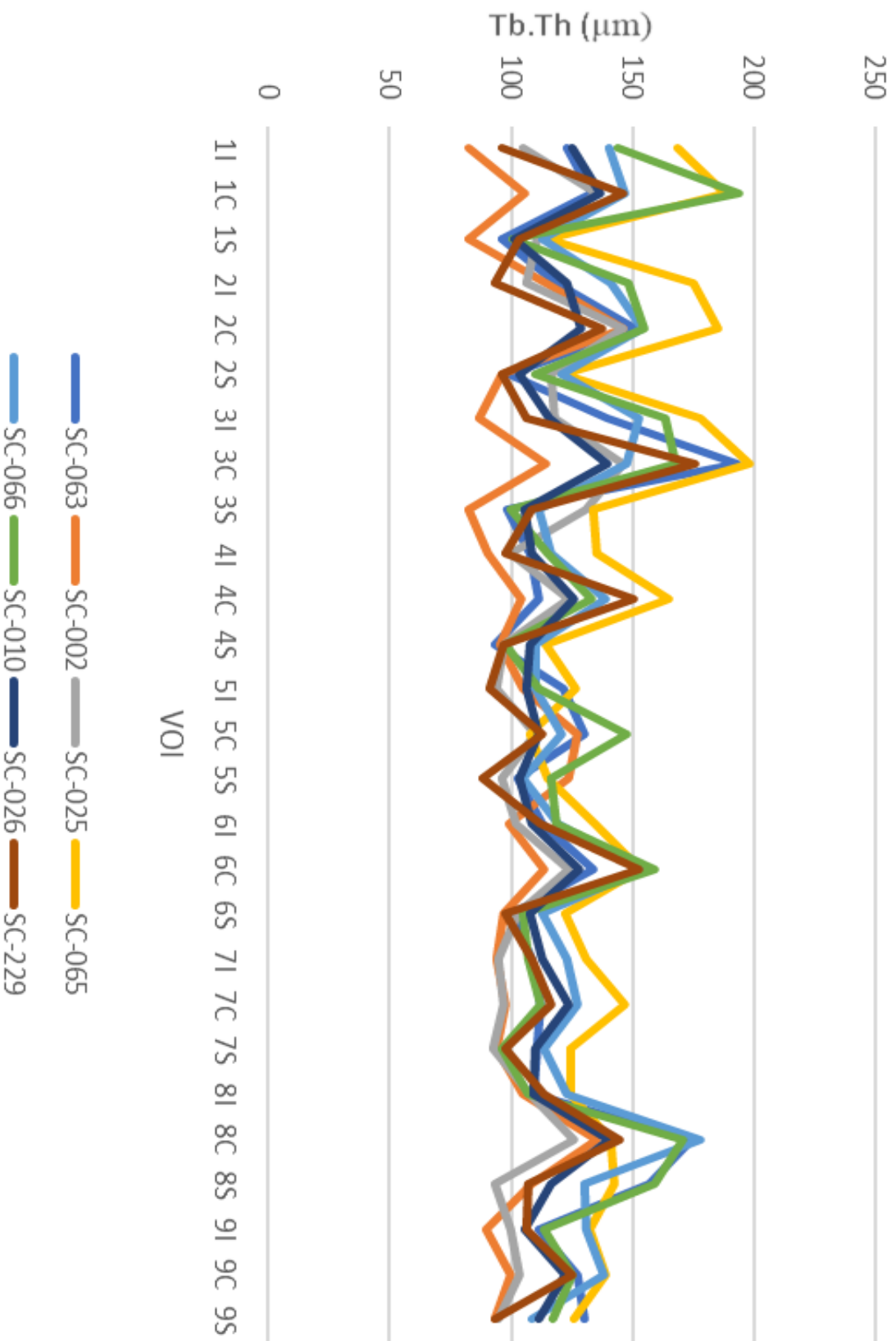
Comparison	Diff of Ranks	q	P	P<0.050
SC-065 vs SC-002	2893.000	8.908	<0.001	Yes
SC-065 vs SC-025	2328.000	7.169	<0.001	Yes
SC-065 vs SC-229	2121.000	6.531	<0.001	Yes
SC-065 vs SC-026	1601.000	4.930	0.011	Yes
SC-065 vs SC-063	1365.000	4.203	0.059	No
SC-065 vs SC-010	952.000	2.931	0.432	Do Not Test
SC-065 vs SC-066	632.000	1.946	0.869	Do Not Test
SC-066 vs SC-002	2261.000	6.962	<0.001	Yes
SC-066 vs SC-025	1696.000	5.222	0.005	Yes
SC-066 vs SC-229	1489.000	4.585	0.026	Yes
SC-066 vs SC-026	969.000	2.984	0.408	No
SC-066 vs SC-063	733.000	2.257	0.753	Do Not Test
SC-066 vs SC-010	320.000	0.985	0.997	Do Not Test
SC-010 vs SC-002	1941.000	5.977	<0.001	Yes
SC-010 vs SC-025	1376.000	4.237	0.055	No
SC-010 vs SC-229	1169.000	3.600	0.176	Do Not Test
SC-010 vs SC-026	649.000	1.998	0.853	Do Not Test
SC-010 vs SC-063	413.000	1.272	0.986	Do Not Test
SC-063 vs SC-002	1528.000	4.705	0.020	Yes
SC-063 vs SC-025	963.000	2.965	0.417	Do Not Test
SC-063 vs SC-229	756.000	2.328	0.722	Do Not Test

SC-063 vs SC-026	236.000	0.727	1.000	Do Not Test
SC-026 vs SC-002	1292.000	3.978	0.092	No
SC-026 vs SC-025	727.000	2.239	0.761	Do Not Test
SC-026 vs SC-229	520.000	1.601	0.950	Do Not Test
SC-229 vs SC-002	772.000	2.377	0.700	Do Not Test
SC-229 vs SC-025	207.000	0.637	1.000	Do Not Test
SC-025 vs SC-002	565.000	1.740	0.924	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ Tb.Th



One Way Analysis of Variance

14 December 2018 10:57:32

Data source: Tb.N in L1 3y+

Normality Test (Shapiro-Wilk): Passed (P = 0.378)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 10:57:32

Data source: Tb.N in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	0.00113	0.00101	0.00127
SC-002	27	0	0.00144	0.00125	0.00175
SC-025	27	0	0.00141	0.00123	0.00166
SC-065	27	0	0.00106	0.000930	0.00121
SC-066	27	0	0.001000	0.000910	0.00108
SC-010	27	0	0.00125	0.000970	0.00137
SC-026	27	0	0.00118	0.00108	0.00125
SC-229	27	0	0.00120	0.00104	0.00143

H = 65.063 with 7 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

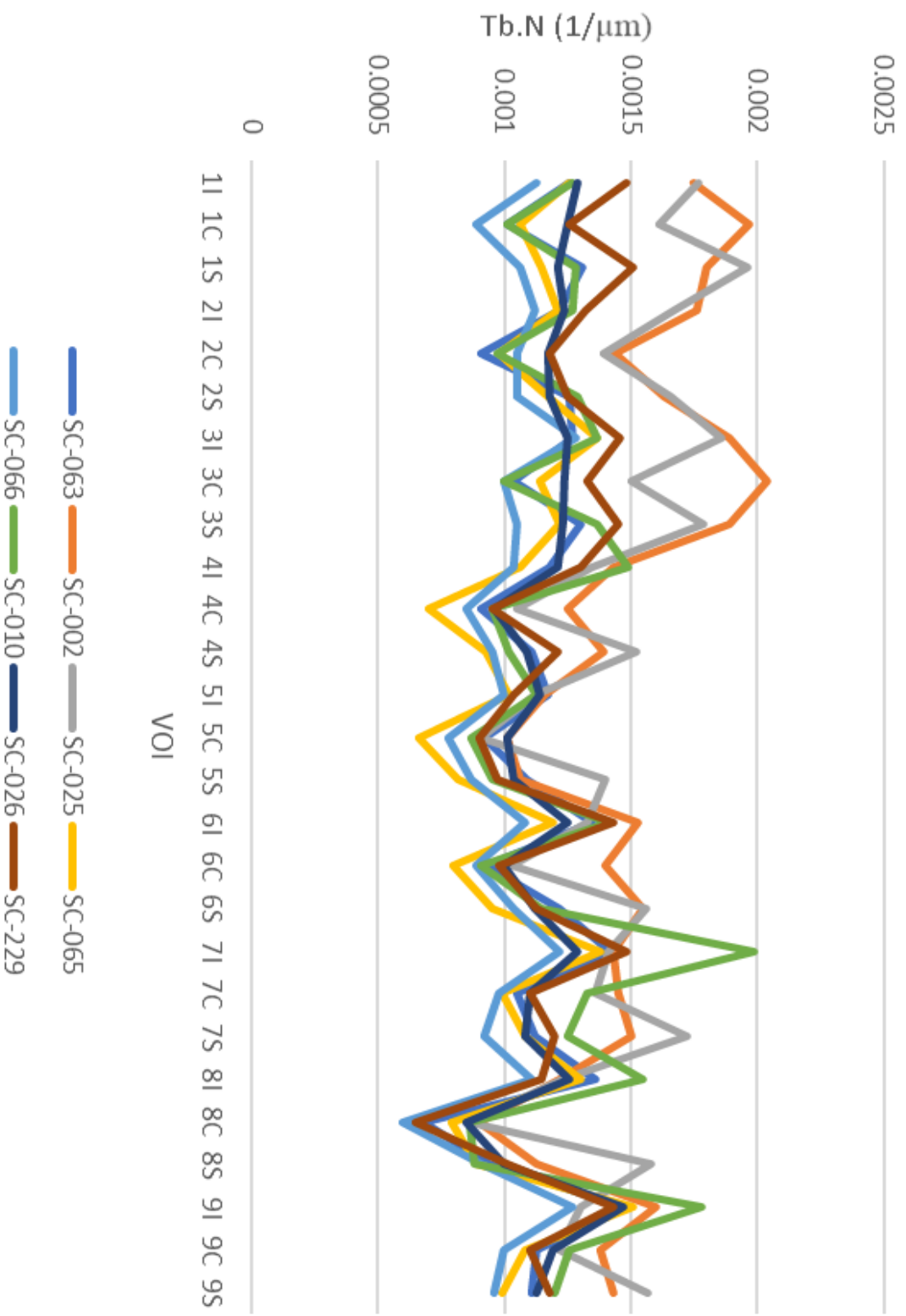
Comparison	Diff of Ranks	q	P	P<0.050
SC-002 vs SC-066	2894.500	8.913	<0.001	Yes
SC-002 vs SC-065	2373.500	7.309	<0.001	Yes
SC-002 vs SC-063	1830.000	5.635	0.002	Yes
SC-002 vs SC-026	1719.000	5.293	0.004	Yes
SC-002 vs SC-010	1488.500	4.584	0.026	Yes
SC-002 vs SC-229	1374.500	4.232	0.056	No
SC-002 vs SC-025	184.000	0.567	1.000	Do Not Test
SC-025 vs SC-066	2710.500	8.346	<0.001	Yes
SC-025 vs SC-065	2189.500	6.742	<0.001	Yes
SC-025 vs SC-063	1646.000	5.069	0.008	Yes
SC-025 vs SC-026	1535.000	4.727	0.019	Yes
SC-025 vs SC-010	1304.500	4.017	0.085	No
SC-025 vs SC-229	1190.500	3.666	0.159	Do Not Test
SC-229 vs SC-066	1520.000	4.681	0.021	Yes
SC-229 vs SC-065	999.000	3.076	0.367	No
SC-229 vs SC-063	455.500	1.403	0.976	Do Not Test
SC-229 vs SC-026	344.500	1.061	0.995	Do Not Test
SC-229 vs SC-010	114.000	0.351	1.000	Do Not Test
SC-010 vs SC-066	1406.000	4.329	0.046	Yes

SC-010 vs SC-065	885.000	2.725	0.532	Do Not Test
SC-010 vs SC-063	341.500	1.052	0.996	Do Not Test
SC-010 vs SC-026	230.500	0.710	1.000	Do Not Test
SC-026 vs SC-066	1175.500	3.620	0.171	No
SC-026 vs SC-065	654.500	2.015	0.847	Do Not Test
SC-026 vs SC-063	111.000	0.342	1.000	Do Not Test
SC-063 vs SC-066	1064.500	3.278	0.284	Do Not Test
SC-063 vs SC-065	543.500	1.674	0.938	Do Not Test
SC-065 vs SC-066	521.000	1.604	0.950	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ Tb.N



One Way Analysis of Variance

14 December 2018 10:59:56

Data source: Tb.Sp in L1 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 10:59:56

Data source: Tb.Sp in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	606.909	547.713	805.857
SC-002	27	0	449.289	379.319	562.731
SC-025	27	0	513.605	452.277	579.300
SC-065	27	0	652.420	542.137	692.399
SC-066	27	0	631.121	601.801	705.599
SC-010	27	0	552.539	461.197	741.574
SC-026	27	0	566.872	510.786	646.009
SC-229	27	0	465.822	444.449	596.436

H = 55.192 with 7 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

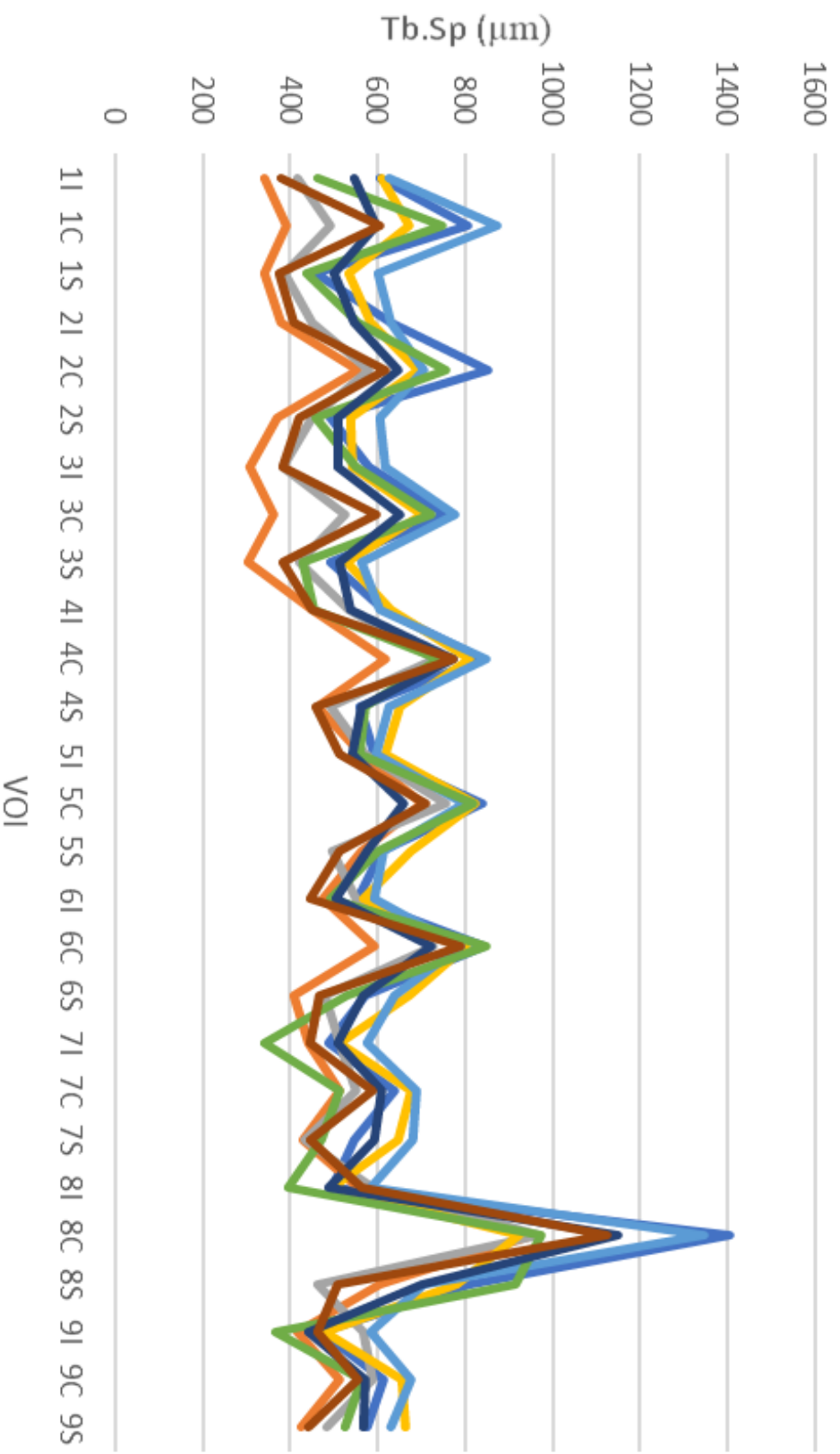
Comparison	Diff of Ranks	q	P	P<0.050
SC-066 vs SC-002	2609.000	8.034	<0.001	Yes
SC-066 vs SC-229	2143.000	6.599	<0.001	Yes
SC-066 vs SC-025	1991.000	6.131	<0.001	Yes
SC-066 vs SC-010	1510.000	4.650	0.022	Yes
SC-066 vs SC-026	1232.000	3.794	0.128	No
SC-066 vs SC-063	684.000	2.106	0.814	Do Not Test
SC-066 vs SC-065	403.000	1.241	0.988	Do Not Test
SC-065 vs SC-002	2206.000	6.793	<0.001	Yes
SC-065 vs SC-229	1740.000	5.358	0.004	Yes
SC-065 vs SC-025	1588.000	4.890	0.013	Yes
SC-065 vs SC-010	1107.000	3.409	0.236	No
SC-065 vs SC-026	829.000	2.553	0.616	Do Not Test
SC-065 vs SC-063	281.000	0.865	0.999	Do Not Test
SC-063 vs SC-002	1925.000	5.928	<0.001	Yes
SC-063 vs SC-229	1459.000	4.493	0.032	Yes
SC-063 vs SC-025	1307.000	4.025	0.084	No
SC-063 vs SC-010	826.000	2.544	0.621	Do Not Test
SC-063 vs SC-026	548.000	1.687	0.935	Do Not Test
SC-026 vs SC-002	1377.000	4.240	0.055	No
SC-026 vs SC-229	911.000	2.805	0.493	Do Not Test
SC-026 vs SC-025	759.000	2.337	0.718	Do Not Test

SC-026 vs SC-010	278.000	0.856	0.999	Do Not Test
SC-010 vs SC-002	1099.000	3.384	0.245	Do Not Test
SC-010 vs SC-229	633.000	1.949	0.868	Do Not Test
SC-010 vs SC-025	481.000	1.481	0.967	Do Not Test
SC-025 vs SC-002	618.000	1.903	0.882	Do Not Test
SC-025 vs SC-229	152.000	0.468	1.000	Do Not Test
SC-229 vs SC-002	466.000	1.435	0.973	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ Tb.Sp



- SC-063
- SC-002
- SC-025
- SC-065
- SC-066
- SC-010
- SC-026
- SC-229

One Way Analysis of Variance

14 December 2018 11:01:32

Data source: DA in L1 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:01:32

Data source: DA in L1 3y+

Group	N	Missing	Median	25%	75%
SC-063	27	0	0.306	0.222	0.406
SC-002	27	0	0.406	0.299	0.501
SC-025	27	0	0.340	0.238	0.463
SC-065	27	0	0.296	0.155	0.425
SC-066	27	0	0.386	0.282	0.462
SC-010	27	0	0.317	0.211	0.430
SC-026	27	0	0.308	0.241	0.426
SC-229	27	0	0.384	0.222	0.475

H = 14.752 with 7 degrees of freedom. (P = 0.039)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.039)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

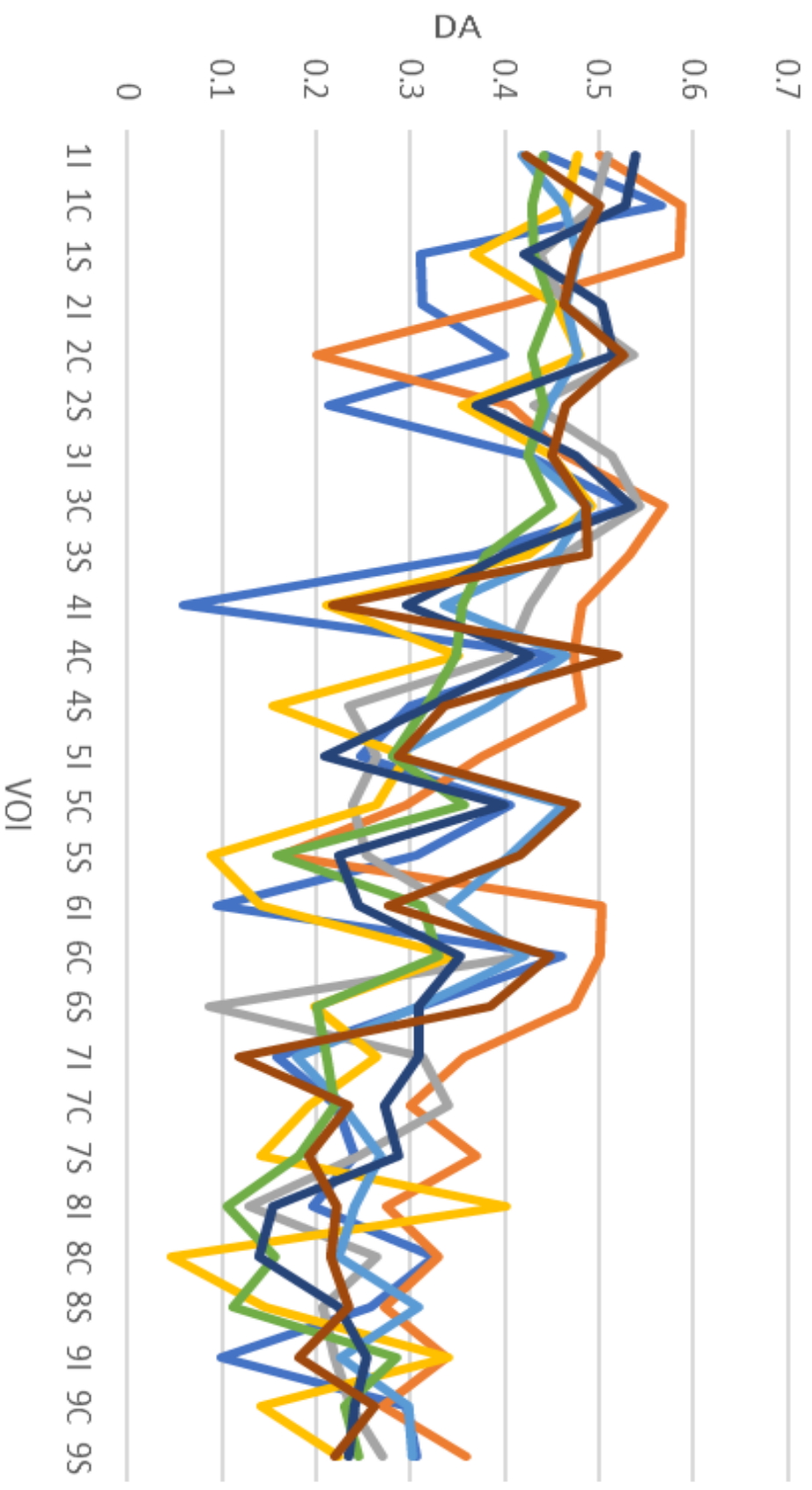
Comparison	Diff of Ranks	q	P	P<0.050
SC-002 vs SC-065	1429.000	4.400	0.039	Yes
SC-002 vs SC-010	1311.000	4.037	0.082	No
SC-002 vs SC-063	1268.000	3.905	0.105	Do Not Test
SC-002 vs SC-026	872.000	2.685	0.551	Do Not Test
SC-002 vs SC-025	785.000	2.417	0.681	Do Not Test
SC-002 vs SC-229	703.000	2.165	0.792	Do Not Test
SC-002 vs SC-066	556.000	1.712	0.930	Do Not Test
SC-066 vs SC-065	873.000	2.688	0.550	No
SC-066 vs SC-010	755.000	2.325	0.724	Do Not Test
SC-066 vs SC-063	712.000	2.192	0.780	Do Not Test
SC-066 vs SC-026	316.000	0.973	0.997	Do Not Test
SC-066 vs SC-025	229.000	0.705	1.000	Do Not Test
SC-066 vs SC-229	147.000	0.453	1.000	Do Not Test
SC-229 vs SC-065	726.000	2.236	0.763	Do Not Test
SC-229 vs SC-010	608.000	1.872	0.891	Do Not Test
SC-229 vs SC-063	565.000	1.740	0.924	Do Not Test
SC-229 vs SC-026	169.000	0.520	1.000	Do Not Test
SC-229 vs SC-025	82.000	0.253	1.000	Do Not Test
SC-025 vs SC-065	644.000	1.983	0.858	Do Not Test
SC-025 vs SC-010	526.000	1.620	0.947	Do Not Test
SC-025 vs SC-063	483.000	1.487	0.967	Do Not Test

SC-025 vs SC-026	87.000	0.268	1.000	Do Not Test
SC-026 vs SC-065	557.000	1.715	0.929	Do Not Test
SC-026 vs SC-010	439.000	1.352	0.980	Do Not Test
SC-026 vs SC-063	396.000	1.219	0.989	Do Not Test
SC-063 vs SC-065	161.000	0.496	1.000	Do Not Test
SC-063 vs SC-010	43.000	0.132	1.000	Do Not Test
SC-010 vs SC-065	118.000	0.363	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L1 3y+ DA



One Way Analysis of Variance

01 December 2018 18:08:52

Data source: BV/TV in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.071)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:08:52

Data source: BV/TV in L3 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-089	27	0	25.485	22.082	29.879
SC-093	27	0	27.472	24.764	29.143
SC-096	27	0	23.808	22.030	26.438

H = 9.328 with 2 degrees of freedom. (P = 0.009)

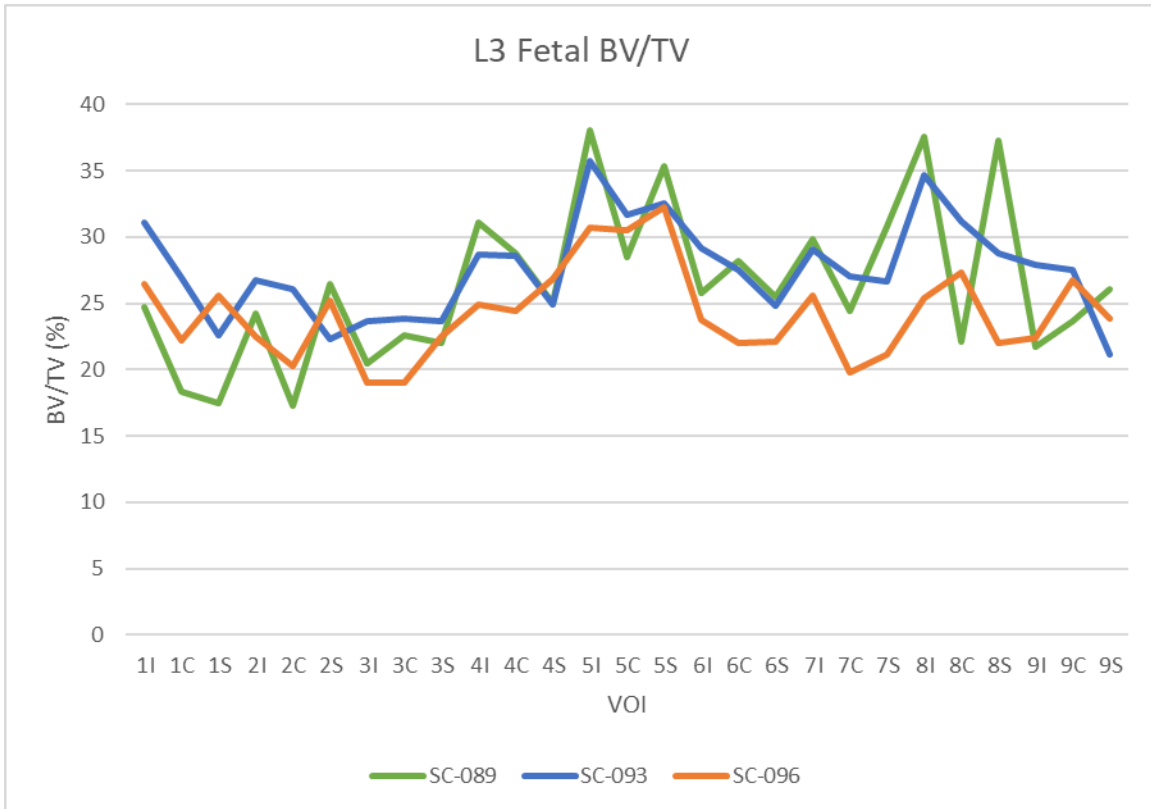
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.009)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-093 vs SC-096	528.000	4.319	0.006	Yes
SC-093 vs SC-089	267.000	2.184	0.270	No
SC-089 vs SC-096	261.000	2.135	0.286	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

01 December 2018 18:10:12

Data source: SMI in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:10:12

Data source: SMI in L3 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-089	27	0	1.149	0.748	1.549
SC-093	27	0	1.577	1.390	1.677
SC-096	27	0	1.795	1.413	1.868

H = 20.304 with 2 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

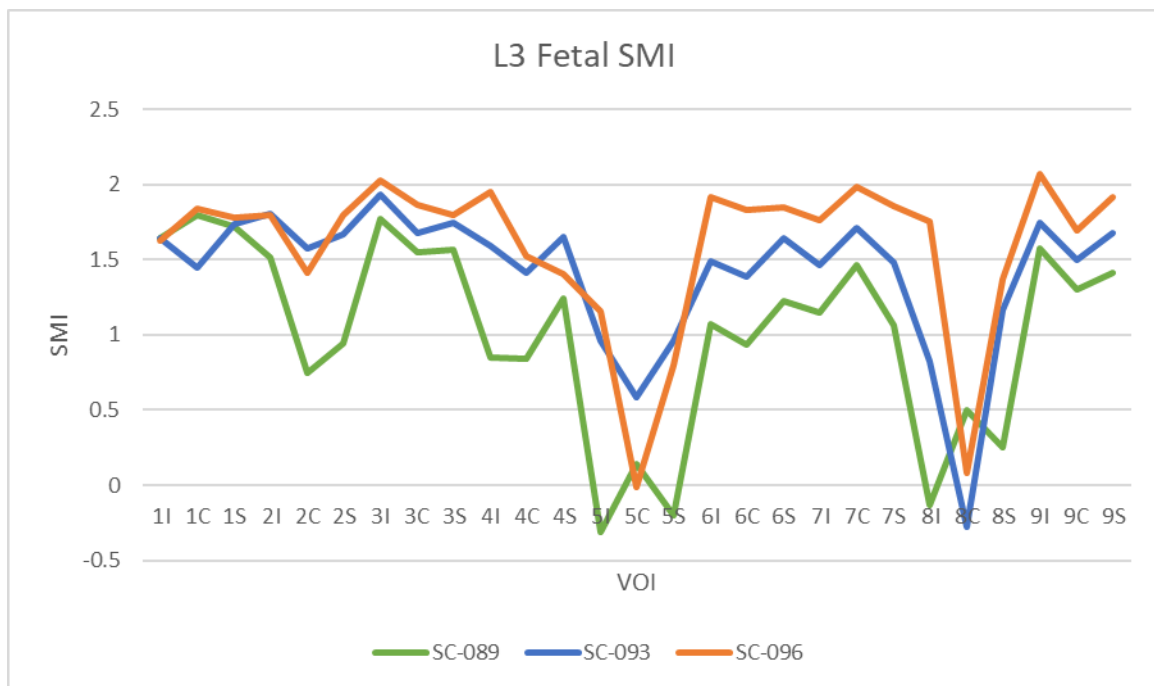
To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-089	779.000	6.372	<0.001	Yes
SC-096 vs SC-093	385.000	3.149	0.067	No
SC-093 vs SC-089	394.000	3.223	0.059	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

Youngest vs oldest



One Way Analysis of Variance

01 December 2018 18:10:50

Data source: Tb.Th in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)
 Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:10:50

Data source: Tb.Th in L3 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-089	27	0	61.992	56.550	65.750
SC-093	27	0	57.903	52.103	69.627
SC-096	27	0	75.210	65.763	85.297

H = 17.037 with 2 degrees of freedom. (P = <0.001)

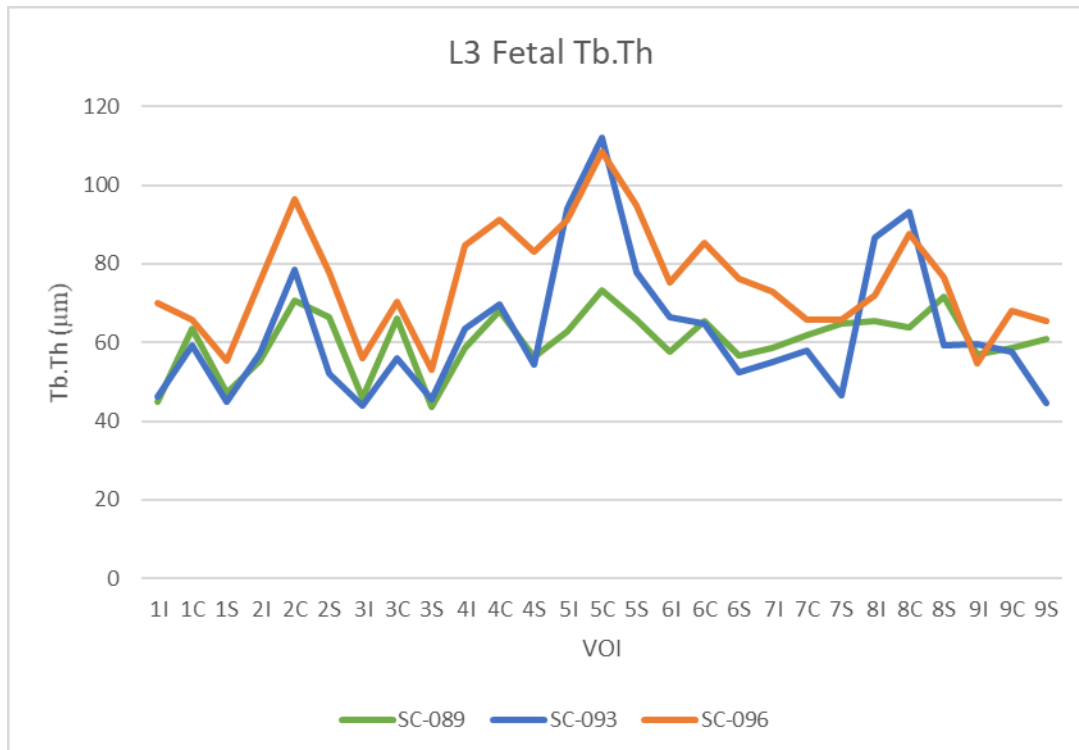
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-093	618.000	5.055	0.001	Yes
SC-096 vs SC-089	618.000	5.055	0.001	Yes
SC-089 vs SC-093	0.000	0.000	1.000	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

01 December 2018 18:12:18

Data source: Tb.N in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.341)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.194)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-089	27	0	0.00440	0.000851	0.000164
SC-093	27	0	0.00455	0.000777	0.000150
SC-096	27	0	0.00328	0.000544	0.000105

Source of Variation	DF	SS	MS	F	P
Between Groups	2	0.0000261	0.0000130	24.095	<0.001
Residual	78	0.0000422	0.000000542		
Total	80	0.0000683			

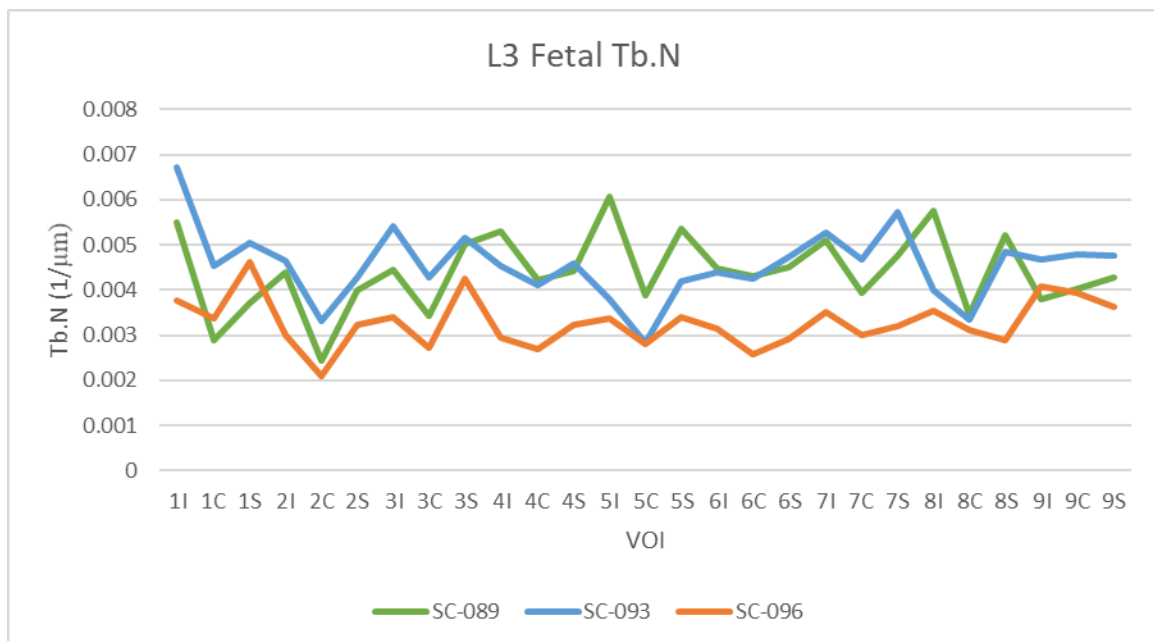
The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001).

Power of performed test with alpha = 0.050: 1.000

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):
Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
SC-093 vs. SC-096	0.00127	6.356	<0.001	Yes
SC-089 vs. SC-096	0.00112	5.596	<0.001	Yes
SC-093 vs. SC-089	0.000152	0.760	0.450	No



One Way Analysis of Variance

01 December 2018 18:13:16

Data source: Tb.Sp in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)
 Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:13:16

Data source: Tb.Sp in L3 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-089	27	0	159.031	139.496	174.242
SC-093	27	0	138.997	125.794	150.364
SC-096	27	0	192.574	172.084	230.327

H = 25.132 with 2 degrees of freedom. (P = <0.001)

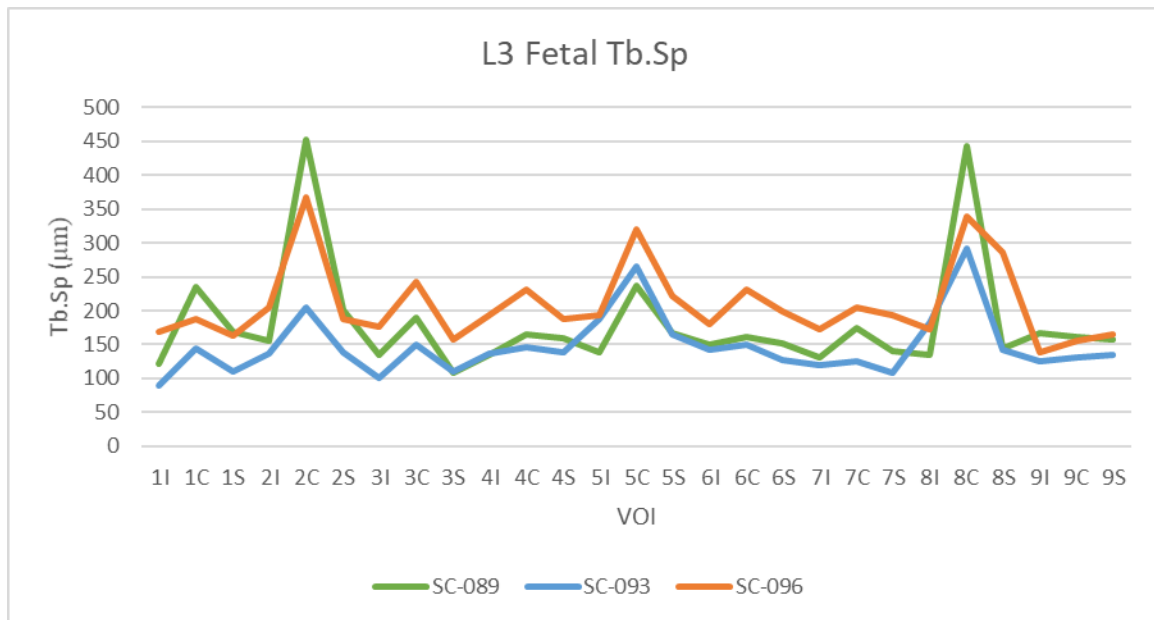
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-093	862.000	7.051	<0.001	Yes
SC-096 vs SC-089	509.000	4.164	0.009	Yes
SC-089 vs SC-093	353.000	2.888	0.102	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

01 December 2018 18:13:42

Data source: DA in L3 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

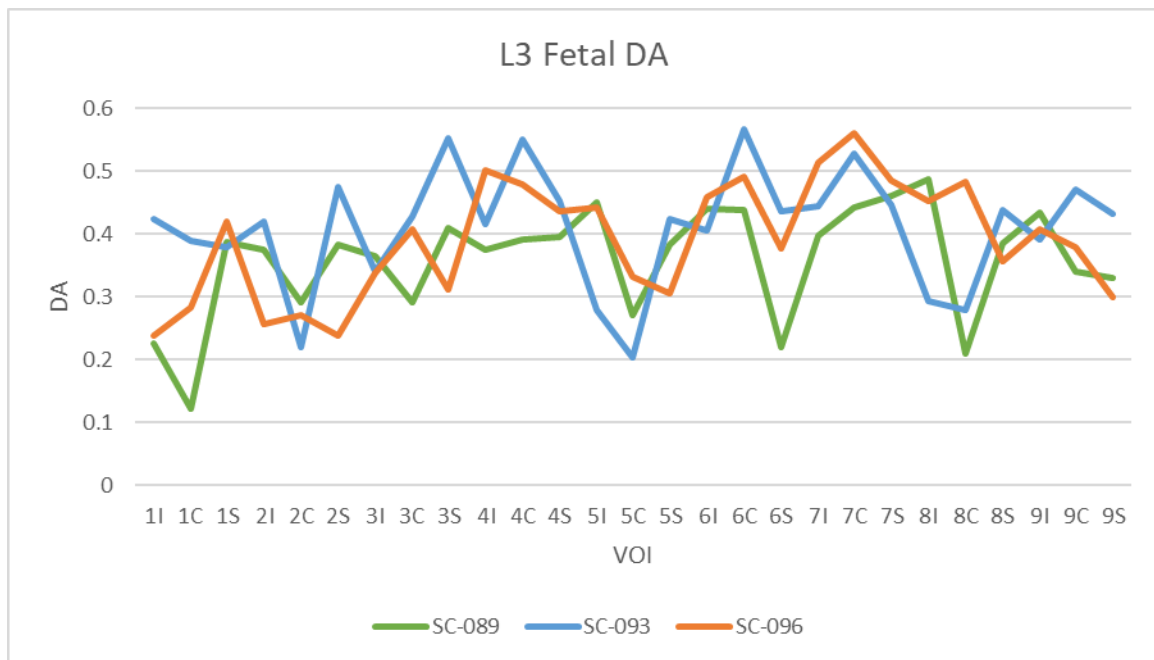
01 December 2018 18:13:42

Data source: DA in L3 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-089	27	0	0.384	0.291	0.435
SC-093	27	0	0.425	0.380	0.452
SC-096	27	0	0.407	0.306	0.479

H = 4.189 with 2 degrees of freedom. (P = 0.123)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.123)



One Way Analysis of Variance

01 December 2018 18:27:47

Data source: BV/TV in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:27:47

Data source: BV/TV in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	24.611	21.760	30.034
SC-084	27	0	33.959	31.914	38.007
SC-086	27	0	30.743	28.744	34.410
SC-087	27	0	28.321	25.103	31.625
SC-088	27	0	32.208	30.526	34.856
SC-092	27	0	24.201	21.702	29.501
SC-097	27	0	21.651	20.106	24.833
SC-161	27	0	22.585	20.028	25.240
SC-158	27	0	25.717	21.983	29.754
SC-154	27	0	21.587	17.571	23.926
SC-040	27	0	6.204	4.967	8.172
SC-041	27	0	12.869	11.371	14.337
SC-043	27	0	17.768	16.062	20.070

H = 249.238 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-040	7828.000	14.847	<0.001	Yes
SC-084 vs SC-041	6966.000	13.212	<0.001	Yes
SC-084 vs SC-043	5601.000	10.623	<0.001	Yes
SC-084 vs SC-154	4557.000	8.643	<0.001	Yes
SC-084 vs SC-097	4194.000	7.954	<0.001	Yes
SC-084 vs SC-161	3921.000	7.437	<0.001	Yes
SC-084 vs SC-092	2962.000	5.618	0.004	Yes
SC-084 vs SC-020	2906.000	5.512	0.005	Yes
SC-084 vs SC-158	2905.000	5.510	0.005	Yes
SC-084 vs SC-087	1868.000	3.543	0.370	No
SC-084 vs SC-086	805.000	1.527	0.998	Do Not Test
SC-084 vs SC-088	467.000	0.886	1.000	Do Not Test
SC-088 vs SC-040	7361.000	13.961	<0.001	Yes
SC-088 vs SC-041	6499.000	12.326	<0.001	Yes
SC-088 vs SC-043	5134.000	9.737	<0.001	Yes
SC-088 vs SC-154	4090.000	7.757	<0.001	Yes

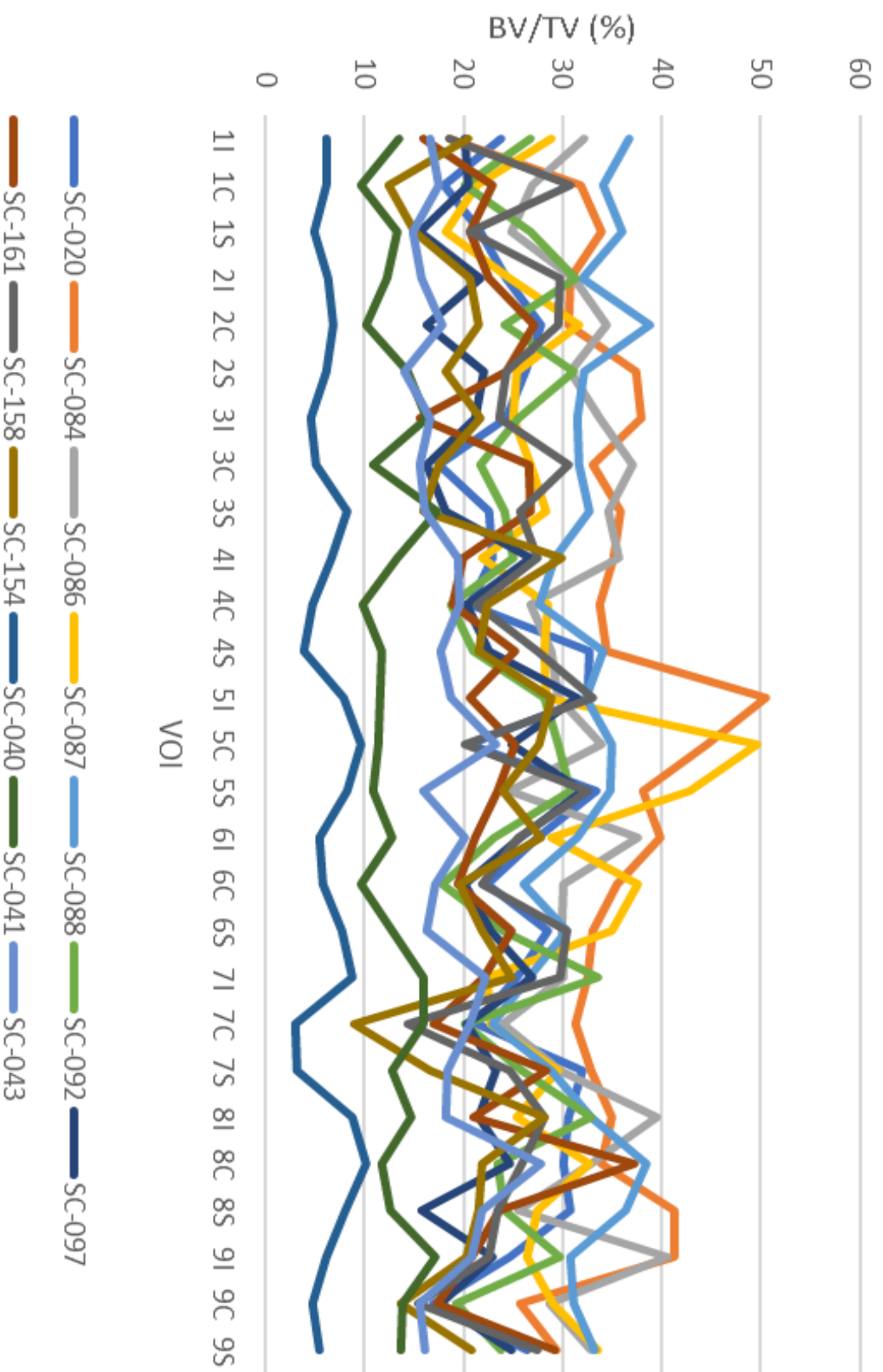
SC-088 vs SC-097	3727.000	7.069	<0.001	Yes
SC-088 vs SC-161	3454.000	6.551	<0.001	Yes
SC-088 vs SC-092	2495.000	4.732	0.044	Yes
SC-088 vs SC-020	2439.000	4.626	0.056	No
SC-088 vs SC-158	2438.000	4.624	0.056	Do Not Test
SC-088 vs SC-087	1401.000	2.657	0.803	Do Not Test
SC-088 vs SC-086	338.000	0.641	1.000	Do Not Test
SC-086 vs SC-040	7023.000	13.320	<0.001	Yes
SC-086 vs SC-041	6161.000	11.685	<0.001	Yes
SC-086 vs SC-043	4796.000	9.096	<0.001	Yes
SC-086 vs SC-154	3752.000	7.116	<0.001	Yes
SC-086 vs SC-097	3389.000	6.428	<0.001	Yes
SC-086 vs SC-161	3116.000	5.910	<0.001	Yes
SC-086 vs SC-092	2157.000	4.091	0.161	No
SC-086 vs SC-020	2101.000	3.985	0.193	Do Not Test
SC-086 vs SC-158	2100.000	3.983	0.193	Do Not Test
SC-086 vs SC-087	1063.000	2.016	0.972	Do Not Test
SC-087 vs SC-040	5960.000	11.304	<0.001	Yes
SC-087 vs SC-041	5098.000	9.669	<0.001	Yes
SC-087 vs SC-043	3733.000	7.080	<0.001	Yes
SC-087 vs SC-154	2689.000	5.100	0.018	Yes
SC-087 vs SC-097	2326.000	4.412	0.088	No
SC-087 vs SC-161	2053.000	3.894	0.223	Do Not Test
SC-087 vs SC-092	1094.000	2.075	0.964	Do Not Test
SC-087 vs SC-020	1038.000	1.969	0.977	Do Not Test
SC-087 vs SC-158	1037.000	1.967	0.977	Do Not Test
SC-158 vs SC-040	4923.000	9.337	<0.001	Yes
SC-158 vs SC-041	4061.000	7.702	<0.001	Yes
SC-158 vs SC-043	2696.000	5.113	0.017	Yes
SC-158 vs SC-154	1652.000	3.133	0.578	No
SC-158 vs SC-097	1289.000	2.445	0.880	Do Not Test
SC-158 vs SC-161	1016.000	1.927	0.981	Do Not Test
SC-158 vs SC-092	57.000	0.108	1.000	Do Not Test
SC-158 vs SC-020	1.000	0.00190	1.000	Do Not Test
SC-020 vs SC-040	4922.000	9.335	<0.001	Yes
SC-020 vs SC-041	4060.000	7.700	<0.001	Yes
SC-020 vs SC-043	2695.000	5.111	0.017	Yes
SC-020 vs SC-154	1651.000	3.131	0.579	Do Not Test
SC-020 vs SC-097	1288.000	2.443	0.881	Do Not Test
SC-020 vs SC-161	1015.000	1.925	0.981	Do Not Test
SC-020 vs SC-092	56.000	0.106	1.000	Do Not Test
SC-092 vs SC-040	4866.000	9.229	<0.001	Yes
SC-092 vs SC-041	4004.000	7.594	<0.001	Yes
SC-092 vs SC-043	2639.000	5.005	0.023	Yes
SC-092 vs SC-154	1595.000	3.025	0.633	Do Not Test
SC-092 vs SC-097	1232.000	2.337	0.911	Do Not Test
SC-092 vs SC-161	959.000	1.819	0.988	Do Not Test
SC-161 vs SC-040	3907.000	7.410	<0.001	Yes
SC-161 vs SC-041	3045.000	5.775	0.002	Yes
SC-161 vs SC-043	1680.000	3.186	0.550	No
SC-161 vs SC-154	636.000	1.206	1.000	Do Not Test
SC-161 vs SC-097	273.000	0.518	1.000	Do Not Test
SC-097 vs SC-040	3634.000	6.892	<0.001	Yes
SC-097 vs SC-041	2772.000	5.257	0.011	Yes
SC-097 vs SC-043	1407.000	2.669	0.799	Do Not Test
SC-097 vs SC-154	363.000	0.688	1.000	Do Not Test

SC-154 vs SC-040	3271.000	6.204	<0.001	Yes
SC-154 vs SC-041	2409.000	4.569	0.063	No
SC-154 vs SC-043	1044.000	1.980	0.976	Do Not Test
SC-043 vs SC-040	2227.000	4.224	0.126	No
SC-043 vs SC-041	1365.000	2.589	0.830	Do Not Test
SC-041 vs SC-040	862.000	1.635	0.996	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 Perinatal BV/TV



One Way Analysis of Variance

01 December 2018 18:28:54

Data source: SMI in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:28:54

Data source: SMI in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	1.412	1.111	1.750
SC-084	27	0	0.725	0.503	0.952
SC-086	27	0	1.079	0.590	1.286
SC-087	27	0	1.687	1.489	1.865
SC-088	27	0	0.903	0.642	1.052
SC-092	27	0	1.426	1.205	1.614
SC-097	27	0	1.591	1.449	1.722
SC-161	27	0	1.489	1.269	1.722
SC-158	27	0	1.431	1.251	1.831
SC-154	27	0	1.720	1.462	1.914
SC-040	27	0	2.303	2.100	2.413
SC-041	27	0	1.853	1.770	1.920
SC-043	27	0	1.672	1.526	1.759

H = 186.503 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-040 vs SC-084	7419.000	14.071	<0.001	Yes
SC-040 vs SC-088	6970.000	13.220	<0.001	Yes
SC-040 vs SC-086	6429.000	12.193	<0.001	Yes
SC-040 vs SC-092	4504.000	8.542	<0.001	Yes
SC-040 vs SC-020	4343.000	8.237	<0.001	Yes
SC-040 vs SC-158	4070.000	7.719	<0.001	Yes
SC-040 vs SC-161	4024.000	7.632	<0.001	Yes
SC-040 vs SC-097	3748.000	7.109	<0.001	Yes
SC-040 vs SC-043	3339.000	6.333	<0.001	Yes
SC-040 vs SC-154	2988.000	5.667	0.003	Yes
SC-040 vs SC-087	2950.000	5.595	0.004	Yes
SC-040 vs SC-041	1463.000	2.775	0.753	No
SC-041 vs SC-084	5956.000	11.296	<0.001	Yes
SC-041 vs SC-088	5507.000	10.445	<0.001	Yes
SC-041 vs SC-086	4966.000	9.419	<0.001	Yes
SC-041 vs SC-092	3041.000	5.768	0.002	Yes

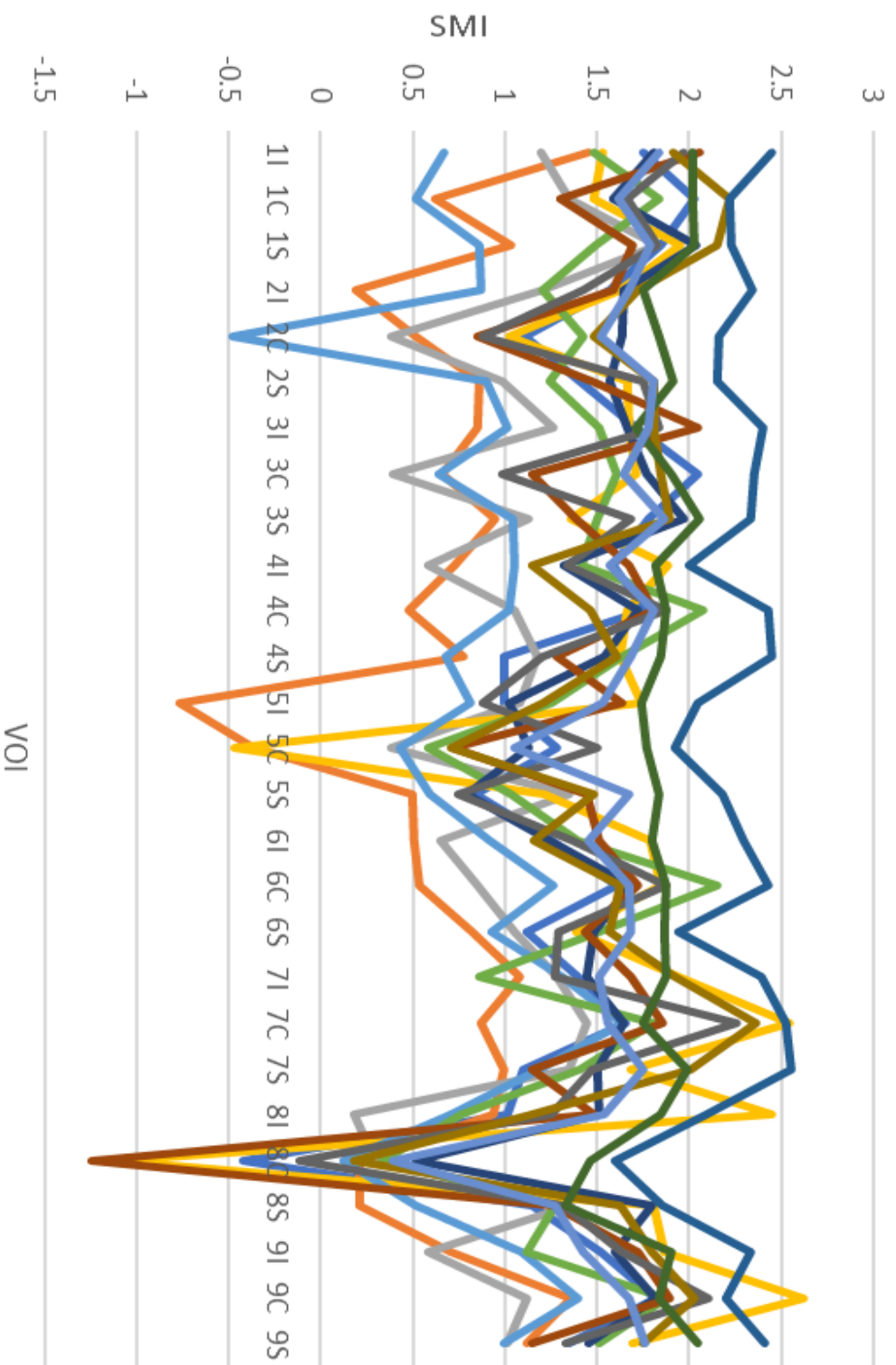
SC-041 vs SC-020	2880.000	5.462	0.006	Yes
SC-041 vs SC-158	2607.000	4.945	0.026	Yes
SC-041 vs SC-161	2561.000	4.857	0.033	Yes
SC-041 vs SC-097	2285.000	4.334	0.102	No
SC-041 vs SC-043	1876.000	3.558	0.363	Do Not Test
SC-041 vs SC-154	1525.000	2.892	0.699	Do Not Test
SC-041 vs SC-087	1487.000	2.820	0.733	Do Not Test
SC-087 vs SC-084	4469.000	8.476	<0.001	Yes
SC-087 vs SC-088	4020.000	7.624	<0.001	Yes
SC-087 vs SC-086	3479.000	6.598	<0.001	Yes
SC-087 vs SC-092	1554.000	2.947	0.672	No
SC-087 vs SC-020	1393.000	2.642	0.809	Do Not Test
SC-087 vs SC-158	1120.000	2.124	0.956	Do Not Test
SC-087 vs SC-161	1074.000	2.037	0.969	Do Not Test
SC-087 vs SC-097	798.000	1.514	0.998	Do Not Test
SC-087 vs SC-043	389.000	0.738	1.000	Do Not Test
SC-087 vs SC-154	38.000	0.0721	1.000	Do Not Test
SC-154 vs SC-084	4431.000	8.404	<0.001	Yes
SC-154 vs SC-088	3982.000	7.552	<0.001	Yes
SC-154 vs SC-086	3441.000	6.526	<0.001	Yes
SC-154 vs SC-092	1516.000	2.875	0.707	Do Not Test
SC-154 vs SC-020	1355.000	2.570	0.837	Do Not Test
SC-154 vs SC-158	1082.000	2.052	0.967	Do Not Test
SC-154 vs SC-161	1036.000	1.965	0.977	Do Not Test
SC-154 vs SC-097	760.000	1.441	0.999	Do Not Test
SC-154 vs SC-043	351.000	0.666	1.000	Do Not Test
SC-043 vs SC-084	4080.000	7.738	<0.001	Yes
SC-043 vs SC-088	3631.000	6.887	<0.001	Yes
SC-043 vs SC-086	3090.000	5.861	0.001	Yes
SC-043 vs SC-092	1165.000	2.210	0.941	Do Not Test
SC-043 vs SC-020	1004.000	1.904	0.983	Do Not Test
SC-043 vs SC-158	731.000	1.386	0.999	Do Not Test
SC-043 vs SC-161	685.000	1.299	0.999	Do Not Test
SC-043 vs SC-097	409.000	0.776	1.000	Do Not Test
SC-097 vs SC-084	3671.000	6.963	<0.001	Yes
SC-097 vs SC-088	3222.000	6.111	<0.001	Yes
SC-097 vs SC-086	2681.000	5.085	0.018	Yes
SC-097 vs SC-092	756.000	1.434	0.999	Do Not Test
SC-097 vs SC-020	595.000	1.128	1.000	Do Not Test
SC-097 vs SC-158	322.000	0.611	1.000	Do Not Test
SC-097 vs SC-161	276.000	0.523	1.000	Do Not Test
SC-161 vs SC-084	3395.000	6.439	<0.001	Yes
SC-161 vs SC-088	2946.000	5.587	0.004	Yes
SC-161 vs SC-086	2405.000	4.561	0.064	No
SC-161 vs SC-092	480.000	0.910	1.000	Do Not Test
SC-161 vs SC-020	319.000	0.605	1.000	Do Not Test
SC-161 vs SC-158	46.000	0.0872	1.000	Do Not Test
SC-158 vs SC-084	3349.000	6.352	<0.001	Yes
SC-158 vs SC-088	2900.000	5.500	0.005	Yes
SC-158 vs SC-086	2359.000	4.474	0.077	Do Not Test
SC-158 vs SC-092	434.000	0.823	1.000	Do Not Test
SC-158 vs SC-020	273.000	0.518	1.000	Do Not Test
SC-020 vs SC-084	3076.000	5.834	0.001	Yes
SC-020 vs SC-088	2627.000	4.982	0.024	Yes
SC-020 vs SC-086	2086.000	3.956	0.202	Do Not Test
SC-020 vs SC-092	161.000	0.305	1.000	Do Not Test

SC-092 vs SC-084	2915.000	5.529	0.005	Yes
SC-092 vs SC-088	2466.000	4.677	0.050	Yes
SC-092 vs SC-086	1925.000	3.651	0.320	Do Not Test
SC-086 vs SC-084	990.000	1.878	0.985	No
SC-086 vs SC-088	541.000	1.026	1.000	Do Not Test
SC-088 vs SC-084	449.000	0.852	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 Perinatal SMI



One Way Analysis of Variance

01 December 2018 18:30:12

Data source: Tb.Th in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:30:12

Data source: Tb.Th in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	93.971	89.009	108.590
SC-084	27	0	94.149	87.868	103.257
SC-086	27	0	91.402	81.766	97.939
SC-087	27	0	123.951	96.811	142.964
SC-088	27	0	90.338	82.966	98.458
SC-092	27	0	90.065	79.507	103.557
SC-097	27	0	87.783	77.972	97.366
SC-161	27	0	91.572	88.171	101.256
SC-158	27	0	97.371	89.195	120.635
SC-154	27	0	83.060	76.074	102.464
SC-040	27	0	62.775	57.780	70.774
SC-041	27	0	89.992	85.477	95.264
SC-043	27	0	76.515	72.734	86.201

H = 119.508 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-087 vs SC-040	6686.000	12.681	<0.001	Yes
SC-087 vs SC-043	4819.000	9.140	<0.001	Yes
SC-087 vs SC-154	3507.000	6.652	<0.001	Yes
SC-087 vs SC-097	3305.000	6.268	<0.001	Yes
SC-087 vs SC-086	2801.000	5.312	0.010	Yes
SC-087 vs SC-092	2667.000	5.058	0.020	Yes
SC-087 vs SC-041	2626.000	4.981	0.024	Yes
SC-087 vs SC-088	2578.000	4.890	0.030	Yes
SC-087 vs SC-161	2190.000	4.154	0.144	No
SC-087 vs SC-084	1902.000	3.607	0.340	Do Not Test
SC-087 vs SC-020	1530.000	2.902	0.694	Do Not Test
SC-087 vs SC-158	1191.000	2.259	0.930	Do Not Test
SC-158 vs SC-040	5495.000	10.422	<0.001	Yes
SC-158 vs SC-043	3628.000	6.881	<0.001	Yes
SC-158 vs SC-154	2316.000	4.393	0.091	No
SC-158 vs SC-097	2114.000	4.009	0.185	Do Not Test

SC-158 vs SC-086	1610.000	3.054	0.619	Do Not Test
SC-158 vs SC-092	1476.000	2.799	0.742	Do Not Test
SC-158 vs SC-041	1435.000	2.722	0.776	Do Not Test
SC-158 vs SC-088	1387.000	2.631	0.814	Do Not Test
SC-158 vs SC-161	999.000	1.895	0.983	Do Not Test
SC-158 vs SC-084	711.000	1.349	0.999	Do Not Test
SC-158 vs SC-020	339.000	0.643	1.000	Do Not Test
SC-020 vs SC-040	5156.000	9.779	<0.001	Yes
SC-020 vs SC-043	3289.000	6.238	<0.001	Yes
SC-020 vs SC-154	1977.000	3.750	0.278	Do Not Test
SC-020 vs SC-097	1775.000	3.367	0.457	Do Not Test
SC-020 vs SC-086	1271.000	2.411	0.891	Do Not Test
SC-020 vs SC-092	1137.000	2.156	0.951	Do Not Test
SC-020 vs SC-041	1096.000	2.079	0.963	Do Not Test
SC-020 vs SC-088	1048.000	1.988	0.975	Do Not Test
SC-020 vs SC-161	660.000	1.252	1.000	Do Not Test
SC-020 vs SC-084	372.000	0.706	1.000	Do Not Test
SC-084 vs SC-040	4784.000	9.074	<0.001	Yes
SC-084 vs SC-043	2917.000	5.532	0.005	Yes
SC-084 vs SC-154	1605.000	3.044	0.624	Do Not Test
SC-084 vs SC-097	1403.000	2.661	0.802	Do Not Test
SC-084 vs SC-086	899.000	1.705	0.993	Do Not Test
SC-084 vs SC-092	765.000	1.451	0.999	Do Not Test
SC-084 vs SC-041	724.000	1.373	0.999	Do Not Test
SC-084 vs SC-088	676.000	1.282	1.000	Do Not Test
SC-084 vs SC-161	288.000	0.546	1.000	Do Not Test
SC-161 vs SC-040	4496.000	8.527	<0.001	Yes
SC-161 vs SC-043	2629.000	4.986	0.024	Yes
SC-161 vs SC-154	1317.000	2.498	0.863	Do Not Test
SC-161 vs SC-097	1115.000	2.115	0.958	Do Not Test
SC-161 vs SC-086	611.000	1.159	1.000	Do Not Test
SC-161 vs SC-092	477.000	0.905	1.000	Do Not Test
SC-161 vs SC-041	436.000	0.827	1.000	Do Not Test
SC-161 vs SC-088	388.000	0.736	1.000	Do Not Test
SC-088 vs SC-040	4108.000	7.791	<0.001	Yes
SC-088 vs SC-043	2241.000	4.250	0.120	No
SC-088 vs SC-154	929.000	1.762	0.991	Do Not Test
SC-088 vs SC-097	727.000	1.379	0.999	Do Not Test
SC-088 vs SC-086	223.000	0.423	1.000	Do Not Test
SC-088 vs SC-092	89.000	0.169	1.000	Do Not Test
SC-088 vs SC-041	48.000	0.0910	1.000	Do Not Test
SC-041 vs SC-040	4060.000	7.700	<0.001	Yes
SC-041 vs SC-043	2193.000	4.159	0.142	Do Not Test
SC-041 vs SC-154	881.000	1.671	0.995	Do Not Test
SC-041 vs SC-097	679.000	1.288	1.000	Do Not Test
SC-041 vs SC-086	175.000	0.332	1.000	Do Not Test
SC-041 vs SC-092	41.000	0.0778	1.000	Do Not Test
SC-092 vs SC-040	4019.000	7.623	<0.001	Yes
SC-092 vs SC-043	2152.000	4.082	0.163	Do Not Test
SC-092 vs SC-154	840.000	1.593	0.996	Do Not Test
SC-092 vs SC-097	638.000	1.210	1.000	Do Not Test
SC-092 vs SC-086	134.000	0.254	1.000	Do Not Test
SC-086 vs SC-040	3885.000	7.368	<0.001	Yes
SC-086 vs SC-043	2018.000	3.827	0.248	Do Not Test
SC-086 vs SC-154	706.000	1.339	0.999	Do Not Test
SC-086 vs SC-097	504.000	0.956	1.000	Do Not Test

SC-097 vs SC-040	3381.000	6.413	<0.001	Yes
SC-097 vs SC-043	1514.000	2.872	0.709	Do Not Test
SC-097 vs SC-154	202.000	0.383	1.000	Do Not Test
SC-154 vs SC-040	3179.000	6.029	<0.001	Yes
SC-154 vs SC-043	1312.000	2.488	0.866	Do Not Test
SC-043 vs SC-040	1867.000	3.541	0.371	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

01 December 2018 18:39:09

Data source: Tb.N in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.264)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:39:09

Data source: Tb.N in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.00273	0.00213	0.00298
SC-084	27	0	0.00369	0.00328	0.00398
SC-086	27	0	0.00340	0.00315	0.00380
SC-087	27	0	0.00239	0.00190	0.00261
SC-088	27	0	0.00348	0.00306	0.00387
SC-092	27	0	0.00278	0.00217	0.00317
SC-097	27	0	0.00271	0.00206	0.00293
SC-161	27	0	0.00246	0.00216	0.00262
SC-158	27	0	0.00266	0.00208	0.00286
SC-154	27	0	0.00242	0.00194	0.00266
SC-040	27	0	0.00101	0.000810	0.00114
SC-041	27	0	0.00145	0.00118	0.00157
SC-043	27	0	0.00225	0.00210	0.00249

H = 236.151 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-040	7716.000	14.634	<0.001	Yes
SC-084 vs SC-041	7034.000	13.341	<0.001	Yes
SC-084 vs SC-043	4544.000	8.618	<0.001	Yes
SC-084 vs SC-087	4109.500	7.794	<0.001	Yes
SC-084 vs SC-154	4081.000	7.740	<0.001	Yes
SC-084 vs SC-161	3856.000	7.313	<0.001	Yes
SC-084 vs SC-158	3565.000	6.762	<0.001	Yes
SC-084 vs SC-097	3455.500	6.554	<0.001	Yes
SC-084 vs SC-020	3195.500	6.061	<0.001	Yes
SC-084 vs SC-092	2629.500	4.987	0.024	Yes
SC-084 vs SC-088	420.500	0.798	1.000	No
SC-084 vs SC-086	198.000	0.376	1.000	Do Not Test
SC-086 vs SC-040	7518.000	14.259	<0.001	Yes
SC-086 vs SC-041	6836.000	12.965	<0.001	Yes

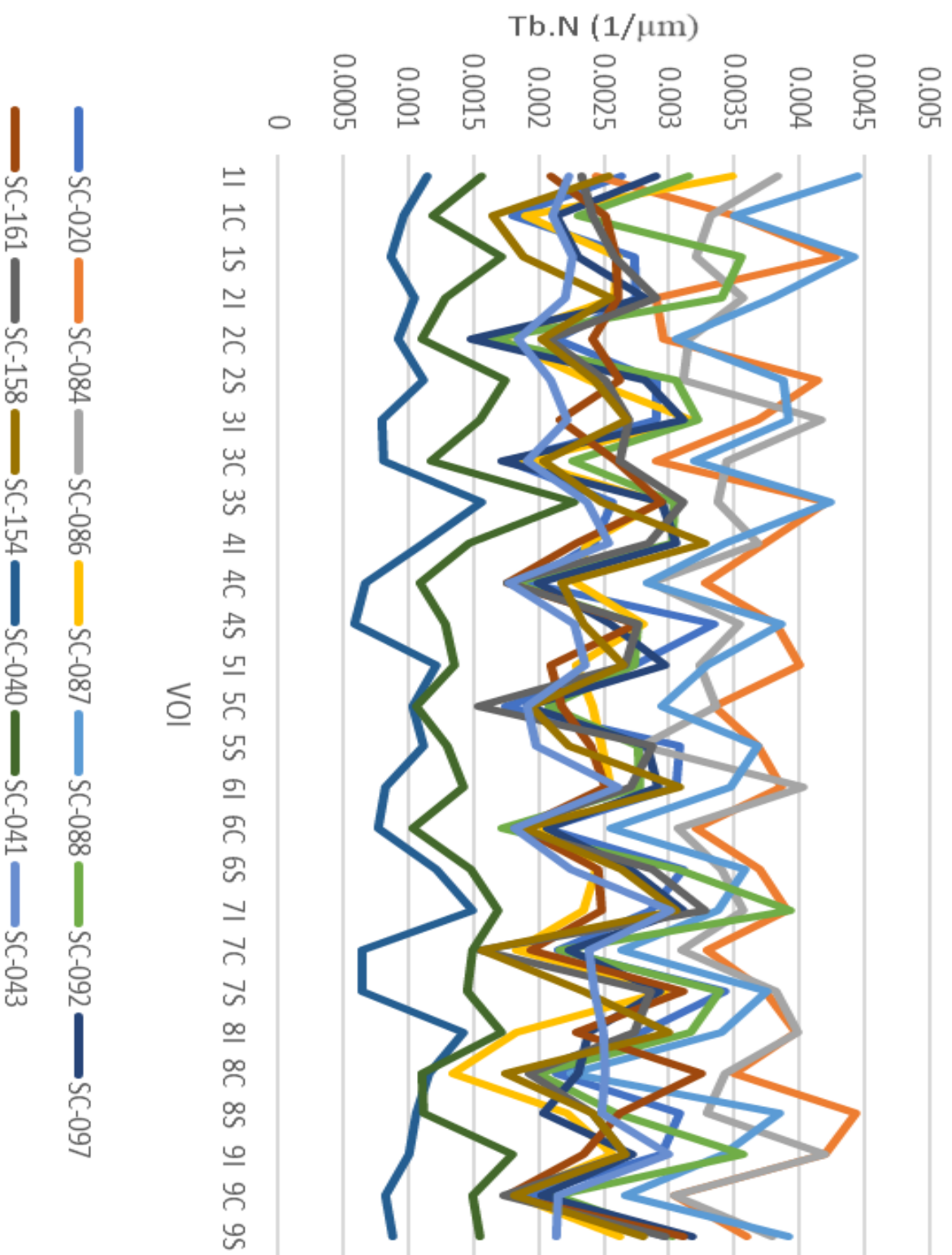
SC-086 vs SC-043	4346.000	8.243	<0.001	Yes
SC-086 vs SC-087	3911.500	7.419	<0.001	Yes
SC-086 vs SC-154	3883.000	7.365	<0.001	Yes
SC-086 vs SC-161	3658.000	6.938	<0.001	Yes
SC-086 vs SC-158	3367.000	6.386	<0.001	Yes
SC-086 vs SC-097	3257.500	6.178	<0.001	Yes
SC-086 vs SC-020	2997.500	5.685	0.003	Yes
SC-086 vs SC-092	2431.500	4.612	0.057	No
SC-086 vs SC-088	222.500	0.422	1.000	Do Not Test
SC-088 vs SC-040	7295.500	13.837	<0.001	Yes
SC-088 vs SC-041	6613.500	12.543	<0.001	Yes
SC-088 vs SC-043	4123.500	7.821	<0.001	Yes
SC-088 vs SC-087	3689.000	6.997	<0.001	Yes
SC-088 vs SC-154	3660.500	6.943	<0.001	Yes
SC-088 vs SC-161	3435.500	6.516	<0.001	Yes
SC-088 vs SC-158	3144.500	5.964	<0.001	Yes
SC-088 vs SC-097	3035.000	5.756	0.002	Yes
SC-088 vs SC-020	2775.000	5.263	0.011	Yes
SC-088 vs SC-092	2209.000	4.190	0.134	Do Not Test
SC-092 vs SC-040	5086.500	9.647	<0.001	Yes
SC-092 vs SC-041	4404.500	8.354	<0.001	Yes
SC-092 vs SC-043	1914.500	3.631	0.329	No
SC-092 vs SC-087	1480.000	2.807	0.739	Do Not Test
SC-092 vs SC-154	1451.500	2.753	0.763	Do Not Test
SC-092 vs SC-161	1226.500	2.326	0.914	Do Not Test
SC-092 vs SC-158	935.500	1.774	0.991	Do Not Test
SC-092 vs SC-097	826.000	1.567	0.997	Do Not Test
SC-092 vs SC-020	566.000	1.073	1.000	Do Not Test
SC-020 vs SC-040	4520.500	8.574	<0.001	Yes
SC-020 vs SC-041	3838.500	7.280	<0.001	Yes
SC-020 vs SC-043	1348.500	2.558	0.842	Do Not Test
SC-020 vs SC-087	914.000	1.734	0.992	Do Not Test
SC-020 vs SC-154	885.500	1.679	0.994	Do Not Test
SC-020 vs SC-161	660.500	1.253	1.000	Do Not Test
SC-020 vs SC-158	369.500	0.701	1.000	Do Not Test
SC-020 vs SC-097	260.000	0.493	1.000	Do Not Test
SC-097 vs SC-040	4260.500	8.081	<0.001	Yes
SC-097 vs SC-041	3578.500	6.787	<0.001	Yes
SC-097 vs SC-043	1088.500	2.064	0.965	Do Not Test
SC-097 vs SC-087	654.000	1.240	1.000	Do Not Test
SC-097 vs SC-154	625.500	1.186	1.000	Do Not Test
SC-097 vs SC-161	400.500	0.760	1.000	Do Not Test
SC-097 vs SC-158	109.500	0.208	1.000	Do Not Test
SC-158 vs SC-040	4151.000	7.873	<0.001	Yes
SC-158 vs SC-041	3469.000	6.579	<0.001	Yes
SC-158 vs SC-043	979.000	1.857	0.986	Do Not Test
SC-158 vs SC-087	544.500	1.033	1.000	Do Not Test
SC-158 vs SC-154	516.000	0.979	1.000	Do Not Test
SC-158 vs SC-161	291.000	0.552	1.000	Do Not Test
SC-161 vs SC-040	3860.000	7.321	<0.001	Yes
SC-161 vs SC-041	3178.000	6.028	<0.001	Yes
SC-161 vs SC-043	688.000	1.305	0.999	Do Not Test
SC-161 vs SC-087	253.500	0.481	1.000	Do Not Test
SC-161 vs SC-154	225.000	0.427	1.000	Do Not Test
SC-154 vs SC-040	3635.000	6.894	<0.001	Yes
SC-154 vs SC-041	2953.000	5.601	0.004	Yes

SC-154 vs SC-043	463.000	0.878	1.000	Do Not Test
SC-154 vs SC-087	28.500	0.0541	1.000	Do Not Test
SC-087 vs SC-040	3606.500	6.840	<0.001	Yes
SC-087 vs SC-041	2924.500	5.547	0.005	Yes
SC-087 vs SC-043	434.500	0.824	1.000	Do Not Test
SC-043 vs SC-040	3172.000	6.016	<0.001	Yes
SC-043 vs SC-041	2490.000	4.723	0.045	Yes
SC-041 vs SC-040	682.000	1.294	1.000	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 Perinatal Tb.N



One Way Analysis of Variance

01 December 2018 18:42:48

Data source: Tb.Sp in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:42:48

Data source: Tb.Sp in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	224.930	212.895	291.335
SC-084	27	0	191.905	172.598	223.938
SC-086	27	0	202.031	176.369	215.995
SC-087	27	0	233.905	214.650	260.329
SC-088	27	0	204.771	187.054	232.001
SC-092	27	0	240.247	204.729	263.881
SC-097	27	0	249.998	223.179	292.912
SC-161	27	0	262.452	234.107	294.807
SC-158	27	0	250.383	236.708	331.861
SC-154	27	0	246.927	223.115	282.517
SC-040	27	0	485.495	432.576	542.548
SC-041	27	0	443.309	374.768	469.418
SC-043	27	0	262.341	249.303	289.884

H = 175.403 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-040 vs SC-086	6764.000	12.829	<0.001	Yes
SC-040 vs SC-084	6380.000	12.101	<0.001	Yes
SC-040 vs SC-088	6120.000	11.607	<0.001	Yes
SC-040 vs SC-092	4756.000	9.020	<0.001	Yes
SC-040 vs SC-087	4469.000	8.476	<0.001	Yes
SC-040 vs SC-020	4369.000	8.286	<0.001	Yes
SC-040 vs SC-097	3869.000	7.338	<0.001	Yes
SC-040 vs SC-154	3817.000	7.239	<0.001	Yes
SC-040 vs SC-161	3564.000	6.760	<0.001	Yes
SC-040 vs SC-158	3334.000	6.323	<0.001	Yes
SC-040 vs SC-043	3078.000	5.838	0.001	Yes
SC-040 vs SC-041	453.000	0.859	1.000	No
SC-041 vs SC-086	6311.000	11.970	<0.001	Yes
SC-041 vs SC-084	5927.000	11.241	<0.001	Yes
SC-041 vs SC-088	5667.000	10.748	<0.001	Yes
SC-041 vs SC-092	4303.000	8.161	<0.001	Yes

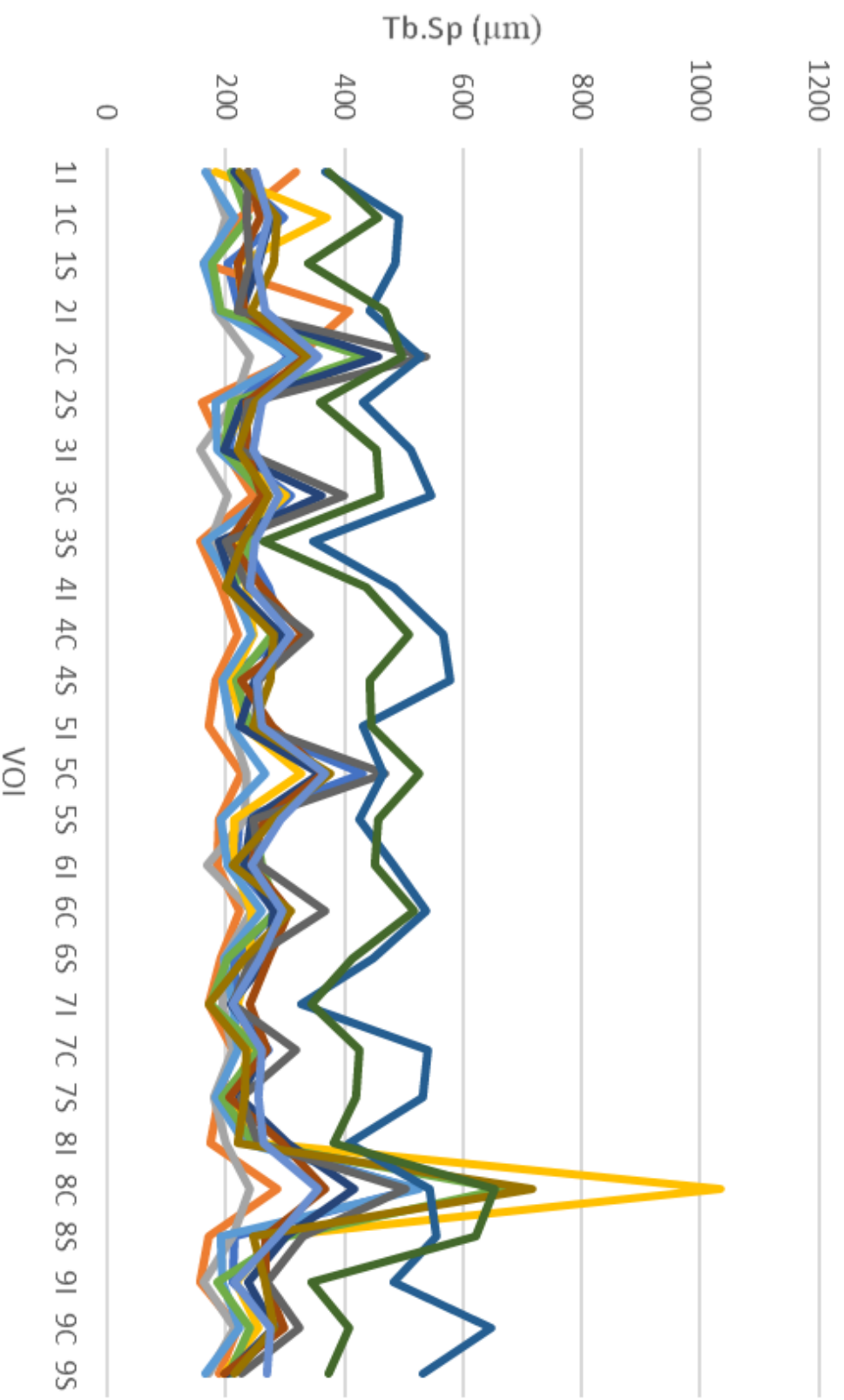
SC-041 vs SC-087	4016.000	7.617	<0.001	Yes
SC-041 vs SC-020	3916.000	7.427	<0.001	Yes
SC-041 vs SC-097	3416.000	6.479	<0.001	Yes
SC-041 vs SC-154	3364.000	6.380	<0.001	Yes
SC-041 vs SC-161	3111.000	5.900	<0.001	Yes
SC-041 vs SC-158	2881.000	5.464	0.006	Yes
SC-041 vs SC-043	2625.000	4.979	0.024	Yes
SC-043 vs SC-086	3686.000	6.991	<0.001	Yes
SC-043 vs SC-084	3302.000	6.263	<0.001	Yes
SC-043 vs SC-088	3042.000	5.770	0.002	Yes
SC-043 vs SC-092	1678.000	3.183	0.552	No
SC-043 vs SC-087	1391.000	2.638	0.811	Do Not Test
SC-043 vs SC-020	1291.000	2.449	0.879	Do Not Test
SC-043 vs SC-097	791.000	1.500	0.998	Do Not Test
SC-043 vs SC-154	739.000	1.402	0.999	Do Not Test
SC-043 vs SC-161	486.000	0.922	1.000	Do Not Test
SC-043 vs SC-158	256.000	0.486	1.000	Do Not Test
SC-158 vs SC-086	3430.000	6.505	<0.001	Yes
SC-158 vs SC-084	3046.000	5.777	0.002	Yes
SC-158 vs SC-088	2786.000	5.284	0.011	Yes
SC-158 vs SC-092	1422.000	2.697	0.787	Do Not Test
SC-158 vs SC-087	1135.000	2.153	0.952	Do Not Test
SC-158 vs SC-020	1035.000	1.963	0.977	Do Not Test
SC-158 vs SC-097	535.000	1.015	1.000	Do Not Test
SC-158 vs SC-154	483.000	0.916	1.000	Do Not Test
SC-158 vs SC-161	230.000	0.436	1.000	Do Not Test
SC-161 vs SC-086	3200.000	6.069	<0.001	Yes
SC-161 vs SC-084	2816.000	5.341	0.009	Yes
SC-161 vs SC-088	2556.000	4.848	0.033	Yes
SC-161 vs SC-092	1192.000	2.261	0.930	Do Not Test
SC-161 vs SC-087	905.000	1.716	0.993	Do Not Test
SC-161 vs SC-020	805.000	1.527	0.998	Do Not Test
SC-161 vs SC-097	305.000	0.578	1.000	Do Not Test
SC-161 vs SC-154	253.000	0.480	1.000	Do Not Test
SC-154 vs SC-086	2947.000	5.589	0.004	Yes
SC-154 vs SC-084	2563.000	4.861	0.032	Yes
SC-154 vs SC-088	2303.000	4.368	0.096	No
SC-154 vs SC-092	939.000	1.781	0.990	Do Not Test
SC-154 vs SC-087	652.000	1.237	1.000	Do Not Test
SC-154 vs SC-020	552.000	1.047	1.000	Do Not Test
SC-154 vs SC-097	52.000	0.0986	1.000	Do Not Test
SC-097 vs SC-086	2895.000	5.491	0.006	Yes
SC-097 vs SC-084	2511.000	4.762	0.041	Yes
SC-097 vs SC-088	2251.000	4.269	0.116	Do Not Test
SC-097 vs SC-092	887.000	1.682	0.994	Do Not Test
SC-097 vs SC-087	600.000	1.138	1.000	Do Not Test
SC-097 vs SC-020	500.000	0.948	1.000	Do Not Test
SC-020 vs SC-086	2395.000	4.542	0.067	No
SC-020 vs SC-084	2011.000	3.814	0.253	Do Not Test
SC-020 vs SC-088	1751.000	3.321	0.480	Do Not Test
SC-020 vs SC-092	387.000	0.734	1.000	Do Not Test
SC-020 vs SC-087	100.000	0.190	1.000	Do Not Test
SC-087 vs SC-086	2295.000	4.353	0.098	Do Not Test
SC-087 vs SC-084	1911.000	3.624	0.332	Do Not Test
SC-087 vs SC-088	1651.000	3.131	0.579	Do Not Test
SC-087 vs SC-092	287.000	0.544	1.000	Do Not Test

SC-092 vs SC-086	2008.000	3.808	0.255	Do Not Test
SC-092 vs SC-084	1624.000	3.080	0.605	Do Not Test
SC-092 vs SC-088	1364.000	2.587	0.831	Do Not Test
SC-088 vs SC-086	644.000	1.221	1.000	Do Not Test
SC-088 vs SC-084	260.000	0.493	1.000	Do Not Test
SC-084 vs SC-086	384.000	0.728	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 Perinatal Tb.Sp



One Way Analysis of Variance

01 December 2018 18:46:03

Data source: DA in L3 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 18:46:03

Data source: DA in L3 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.453	0.377	0.513
SC-084	27	0	0.363	0.314	0.425
SC-086	27	0	0.374	0.299	0.431
SC-087	27	0	0.342	0.310	0.390
SC-088	27	0	0.347	0.298	0.375
SC-092	27	0	0.457	0.380	0.504
SC-097	27	0	0.414	0.358	0.483
SC-161	27	0	0.428	0.393	0.488
SC-158	27	0	0.331	0.258	0.405
SC-154	27	0	0.408	0.358	0.444
SC-040	27	0	0.278	0.226	0.346
SC-041	27	0	0.344	0.251	0.420
SC-043	27	0	0.399	0.340	0.461

H = 76.845 with 12 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-092 vs SC-040	4055.000	7.691	<0.001	Yes
SC-092 vs SC-088	3270.000	6.202	<0.001	Yes
SC-092 vs SC-158	2920.500	5.539	0.005	Yes
SC-092 vs SC-041	2836.000	5.379	0.008	Yes
SC-092 vs SC-087	2708.500	5.137	0.016	Yes
SC-092 vs SC-084	2178.500	4.132	0.149	No
SC-092 vs SC-086	2044.500	3.878	0.229	Do Not Test
SC-092 vs SC-043	1172.500	2.224	0.938	Do Not Test
SC-092 vs SC-154	1029.500	1.953	0.978	Do Not Test
SC-092 vs SC-097	678.500	1.287	1.000	Do Not Test
SC-092 vs SC-161	356.500	0.676	1.000	Do Not Test
SC-092 vs SC-020	13.500	0.0256	1.000	Do Not Test
SC-020 vs SC-040	4041.500	7.665	<0.001	Yes
SC-020 vs SC-088	3256.500	6.176	<0.001	Yes
SC-020 vs SC-158	2907.000	5.514	0.005	Yes
SC-020 vs SC-041	2822.500	5.353	0.009	Yes

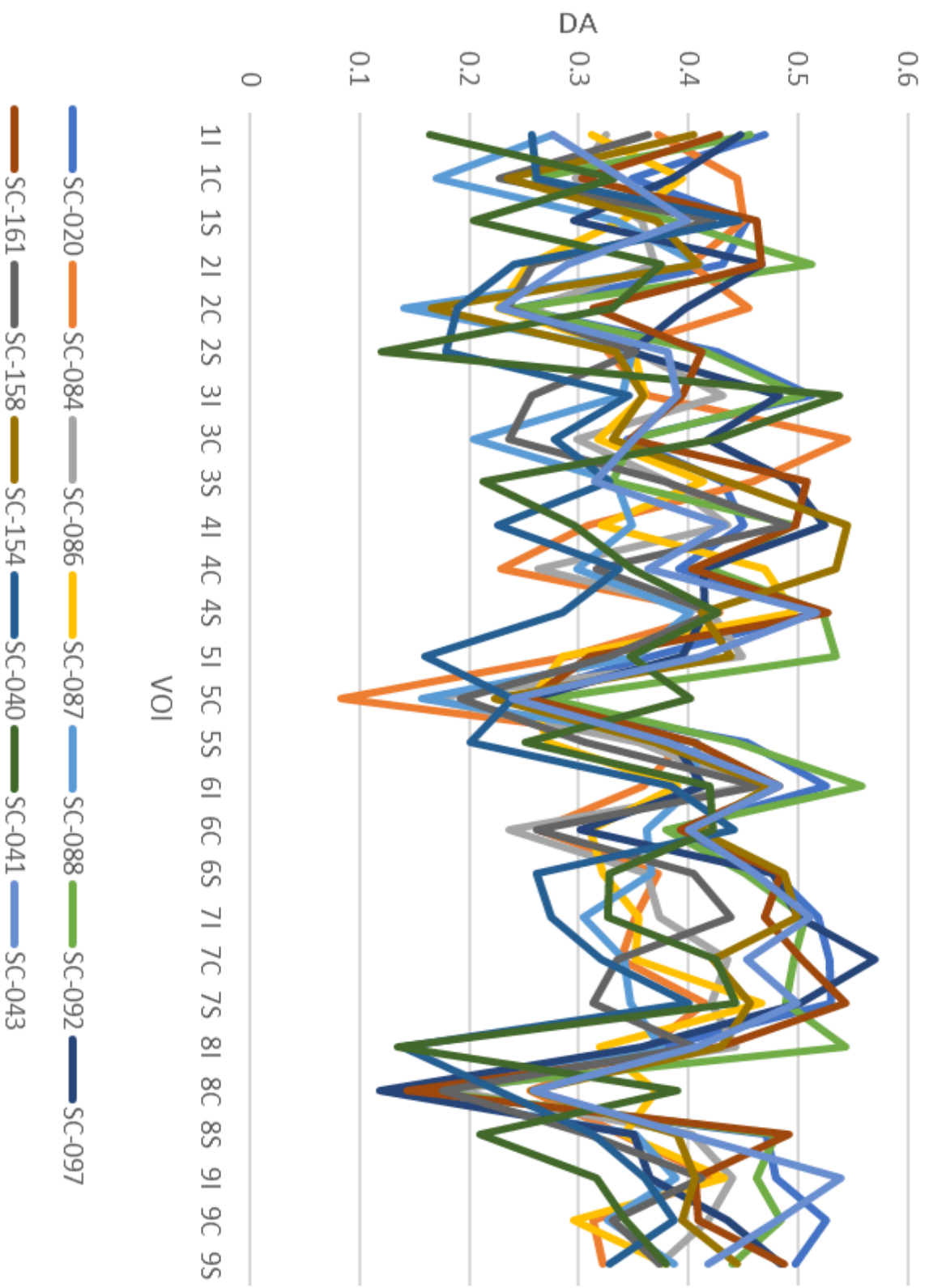
SC-020 vs SC-087	2695.000	5.111	0.017	Yes
SC-020 vs SC-084	2165.000	4.106	0.156	Do Not Test
SC-020 vs SC-086	2031.000	3.852	0.238	Do Not Test
SC-020 vs SC-043	1159.000	2.198	0.943	Do Not Test
SC-020 vs SC-154	1016.000	1.927	0.981	Do Not Test
SC-020 vs SC-097	665.000	1.261	1.000	Do Not Test
SC-020 vs SC-161	343.000	0.651	1.000	Do Not Test
SC-161 vs SC-040	3698.500	7.015	<0.001	Yes
SC-161 vs SC-088	2913.500	5.526	0.005	Yes
SC-161 vs SC-158	2564.000	4.863	0.032	Yes
SC-161 vs SC-041	2479.500	4.703	0.047	Yes
SC-161 vs SC-087	2352.000	4.461	0.079	No
SC-161 vs SC-084	1822.000	3.456	0.412	Do Not Test
SC-161 vs SC-086	1688.000	3.202	0.542	Do Not Test
SC-161 vs SC-043	816.000	1.548	0.997	Do Not Test
SC-161 vs SC-154	673.000	1.276	1.000	Do Not Test
SC-161 vs SC-097	322.000	0.611	1.000	Do Not Test
SC-097 vs SC-040	3376.500	6.404	<0.001	Yes
SC-097 vs SC-088	2591.500	4.915	0.028	Yes
SC-097 vs SC-158	2242.000	4.252	0.120	No
SC-097 vs SC-041	2157.500	4.092	0.160	Do Not Test
SC-097 vs SC-087	2030.000	3.850	0.239	Do Not Test
SC-097 vs SC-084	1500.000	2.845	0.721	Do Not Test
SC-097 vs SC-086	1366.000	2.591	0.829	Do Not Test
SC-097 vs SC-043	494.000	0.937	1.000	Do Not Test
SC-097 vs SC-154	351.000	0.666	1.000	Do Not Test
SC-154 vs SC-040	3025.500	5.738	0.002	Yes
SC-154 vs SC-088	2240.500	4.249	0.120	No
SC-154 vs SC-158	1891.000	3.587	0.349	Do Not Test
SC-154 vs SC-041	1806.500	3.426	0.427	Do Not Test
SC-154 vs SC-087	1679.000	3.184	0.551	Do Not Test
SC-154 vs SC-084	1149.000	2.179	0.947	Do Not Test
SC-154 vs SC-086	1015.000	1.925	0.981	Do Not Test
SC-154 vs SC-043	143.000	0.271	1.000	Do Not Test
SC-043 vs SC-040	2882.500	5.467	0.006	Yes
SC-043 vs SC-088	2097.500	3.978	0.195	Do Not Test
SC-043 vs SC-158	1748.000	3.315	0.483	Do Not Test
SC-043 vs SC-041	1663.500	3.155	0.566	Do Not Test
SC-043 vs SC-087	1536.000	2.913	0.689	Do Not Test
SC-043 vs SC-084	1006.000	1.908	0.982	Do Not Test
SC-043 vs SC-086	872.000	1.654	0.995	Do Not Test
SC-086 vs SC-040	2010.500	3.813	0.253	No
SC-086 vs SC-088	1225.500	2.324	0.915	Do Not Test
SC-086 vs SC-158	876.000	1.661	0.995	Do Not Test
SC-086 vs SC-041	791.500	1.501	0.998	Do Not Test
SC-086 vs SC-087	664.000	1.259	1.000	Do Not Test
SC-086 vs SC-084	134.000	0.254	1.000	Do Not Test
SC-084 vs SC-040	1876.500	3.559	0.362	Do Not Test
SC-084 vs SC-088	1091.500	2.070	0.965	Do Not Test
SC-084 vs SC-158	742.000	1.407	0.999	Do Not Test
SC-084 vs SC-041	657.500	1.247	1.000	Do Not Test
SC-084 vs SC-087	530.000	1.005	1.000	Do Not Test
SC-087 vs SC-040	1346.500	2.554	0.843	Do Not Test
SC-087 vs SC-088	561.500	1.065	1.000	Do Not Test
SC-087 vs SC-158	212.000	0.402	1.000	Do Not Test
SC-087 vs SC-041	127.500	0.242	1.000	Do Not Test

SC-041 vs SC-040	1219.000	2.312	0.918	Do Not Test
SC-041 vs SC-088	434.000	0.823	1.000	Do Not Test
SC-041 vs SC-158	84.500	0.160	1.000	Do Not Test
SC-158 vs SC-040	1134.500	2.152	0.952	Do Not Test
SC-158 vs SC-088	349.500	0.663	1.000	Do Not Test
SC-088 vs SC-040	785.000	1.489	0.998	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 Perinatal DA



One Way Analysis of Variance

01 December 2018 19:05:47

Data source: BV/TV in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:05:47

Data source: BV/TV in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	18.968	14.248	22.652
SC-047	27	0	15.257	13.781	16.806
SC-050	27	0	10.074	9.146	11.189
SC-021	27	0	11.227	10.634	11.936
SC-054	27	0	15.474	14.629	17.016
SC-056	27	0	14.464	11.764	16.760
SC-057	27	0	13.749	11.428	18.881
SC-060	27	0	10.357	9.237	11.450
SC-061	27	0	11.369	10.010	12.180
SC-024	27	0	12.108	11.141	13.559
SC-062	27	0	10.267	9.400	11.529

H = 150.508 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-050	4769.000	10.687	<0.001	Yes
SC-046 vs SC-060	4532.000	10.156	<0.001	Yes
SC-046 vs SC-062	4456.000	9.985	<0.001	Yes
SC-046 vs SC-021	3670.000	8.224	<0.001	Yes
SC-046 vs SC-061	3659.000	8.199	<0.001	Yes
SC-046 vs SC-024	2969.000	6.653	<0.001	Yes
SC-046 vs SC-056	1689.000	3.785	0.209	No
SC-046 vs SC-057	1583.000	3.547	0.298	Do Not Test
SC-046 vs SC-047	849.000	1.903	0.962	Do Not Test
SC-046 vs SC-054	600.000	1.345	0.997	Do Not Test
SC-054 vs SC-050	4169.000	9.342	<0.001	Yes
SC-054 vs SC-060	3932.000	8.811	<0.001	Yes
SC-054 vs SC-062	3856.000	8.641	<0.001	Yes
SC-054 vs SC-021	3070.000	6.880	<0.001	Yes
SC-054 vs SC-061	3059.000	6.855	<0.001	Yes
SC-054 vs SC-024	2369.000	5.309	0.007	Yes
SC-054 vs SC-056	1089.000	2.440	0.821	Do Not Test
SC-054 vs SC-057	983.000	2.203	0.900	Do Not Test

SC-054 vs SC-047	249.000	0.558	1.000	Do Not Test
SC-047 vs SC-050	3920.000	8.784	<0.001	Yes
SC-047 vs SC-060	3683.000	8.253	<0.001	Yes
SC-047 vs SC-062	3607.000	8.083	<0.001	Yes
SC-047 vs SC-021	2821.000	6.322	<0.001	Yes
SC-047 vs SC-061	2810.000	6.297	<0.001	Yes
SC-047 vs SC-024	2120.000	4.751	0.031	Yes
SC-047 vs SC-056	840.000	1.882	0.965	Do Not Test
SC-047 vs SC-057	734.000	1.645	0.987	Do Not Test
SC-057 vs SC-050	3186.000	7.140	<0.001	Yes
SC-057 vs SC-060	2949.000	6.608	<0.001	Yes
SC-057 vs SC-062	2873.000	6.438	<0.001	Yes
SC-057 vs SC-021	2087.000	4.677	0.037	Yes
SC-057 vs SC-061	2076.000	4.652	0.039	Yes
SC-057 vs SC-024	1386.000	3.106	0.506	No
SC-057 vs SC-056	106.000	0.238	1.000	Do Not Test
SC-056 vs SC-050	3080.000	6.902	<0.001	Yes
SC-056 vs SC-060	2843.000	6.371	<0.001	Yes
SC-056 vs SC-062	2767.000	6.201	<0.001	Yes
SC-056 vs SC-021	1981.000	4.439	0.062	No
SC-056 vs SC-061	1970.000	4.415	0.066	Do Not Test
SC-056 vs SC-024	1280.000	2.868	0.627	Do Not Test
SC-024 vs SC-050	1800.000	4.034	0.138	No
SC-024 vs SC-060	1563.000	3.503	0.317	Do Not Test
SC-024 vs SC-062	1487.000	3.332	0.394	Do Not Test
SC-024 vs SC-021	701.000	1.571	0.991	Do Not Test
SC-024 vs SC-061	690.000	1.546	0.992	Do Not Test
SC-061 vs SC-050	1110.000	2.487	0.802	Do Not Test
SC-061 vs SC-060	873.000	1.956	0.954	Do Not Test
SC-061 vs SC-062	797.000	1.786	0.976	Do Not Test
SC-061 vs SC-021	11.000	0.0246	1.000	Do Not Test
SC-021 vs SC-050	1099.000	2.463	0.812	Do Not Test
SC-021 vs SC-060	862.000	1.932	0.958	Do Not Test
SC-021 vs SC-062	786.000	1.761	0.978	Do Not Test
SC-062 vs SC-050	313.000	0.701	1.000	Do Not Test
SC-062 vs SC-060	76.000	0.170	1.000	Do Not Test
SC-060 vs SC-050	237.000	0.531	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

01 December 2018 19:10:15

Data source: SMI in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:10:15

Data source: SMI in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	1.276	1.176	1.513
SC-047	27	0	1.812	1.736	1.886
SC-050	27	0	1.751	1.646	1.851
SC-021	27	0	1.666	1.537	1.842
SC-054	27	0	1.526	1.381	1.596
SC-056	27	0	1.569	1.362	1.628
SC-057	27	0	1.595	1.510	1.744
SC-060	27	0	1.627	1.525	1.688
SC-061	27	0	1.685	1.515	1.773
SC-024	27	0	1.570	1.478	1.652
SC-062	27	0	1.851	1.681	1.969

H = 118.017 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-062 vs SC-046	4787.000	10.727	<0.001	Yes
SC-062 vs SC-054	3837.000	8.598	<0.001	Yes
SC-062 vs SC-056	3360.000	7.529	<0.001	Yes
SC-062 vs SC-024	3223.000	7.222	<0.001	Yes
SC-062 vs SC-060	2671.000	5.985	<0.001	Yes
SC-062 vs SC-057	2663.000	5.968	<0.001	Yes
SC-062 vs SC-061	1811.000	4.058	0.132	No
SC-062 vs SC-021	1722.000	3.859	0.186	Do Not Test
SC-062 vs SC-050	654.000	1.466	0.995	Do Not Test
SC-062 vs SC-047	264.000	0.592	1.000	Do Not Test
SC-047 vs SC-046	4523.000	10.136	<0.001	Yes
SC-047 vs SC-054	3573.000	8.007	<0.001	Yes
SC-047 vs SC-056	3096.000	6.938	<0.001	Yes
SC-047 vs SC-024	2959.000	6.631	<0.001	Yes
SC-047 vs SC-060	2407.000	5.394	0.005	Yes
SC-047 vs SC-057	2399.000	5.376	0.006	Yes
SC-047 vs SC-061	1547.000	3.467	0.333	Do Not Test
SC-047 vs SC-021	1458.000	3.267	0.425	Do Not Test

SC-047 vs SC-050	390.000	0.874	1.000	Do Not Test
SC-050 vs SC-046	4133.000	9.262	<0.001	Yes
SC-050 vs SC-054	3183.000	7.133	<0.001	Yes
SC-050 vs SC-056	2706.000	6.064	<0.001	Yes
SC-050 vs SC-024	2569.000	5.757	0.001	Yes
SC-050 vs SC-060	2017.000	4.520	0.052	No
SC-050 vs SC-057	2009.000	4.502	0.054	Do Not Test
SC-050 vs SC-061	1157.000	2.593	0.758	Do Not Test
SC-050 vs SC-021	1068.000	2.393	0.838	Do Not Test
SC-021 vs SC-046	3065.000	6.868	<0.001	Yes
SC-021 vs SC-054	2115.000	4.740	0.032	Yes
SC-021 vs SC-056	1638.000	3.671	0.250	No
SC-021 vs SC-024	1501.000	3.364	0.379	Do Not Test
SC-021 vs SC-060	949.000	2.127	0.920	Do Not Test
SC-021 vs SC-057	941.000	2.109	0.924	Do Not Test
SC-021 vs SC-061	89.000	0.199	1.000	Do Not Test
SC-061 vs SC-046	2976.000	6.669	<0.001	Yes
SC-061 vs SC-054	2026.000	4.540	0.050	No
SC-061 vs SC-056	1549.000	3.471	0.331	Do Not Test
SC-061 vs SC-024	1412.000	3.164	0.477	Do Not Test
SC-061 vs SC-060	860.000	1.927	0.959	Do Not Test
SC-061 vs SC-057	852.000	1.909	0.961	Do Not Test
SC-057 vs SC-046	2124.000	4.760	0.030	Yes
SC-057 vs SC-054	1174.000	2.631	0.741	Do Not Test
SC-057 vs SC-056	697.000	1.562	0.991	Do Not Test
SC-057 vs SC-024	560.000	1.255	0.998	Do Not Test
SC-057 vs SC-060	8.000	0.0179	1.000	Do Not Test
SC-060 vs SC-046	2116.000	4.742	0.032	Yes
SC-060 vs SC-054	1166.000	2.613	0.749	Do Not Test
SC-060 vs SC-056	689.000	1.544	0.992	Do Not Test
SC-060 vs SC-024	552.000	1.237	0.999	Do Not Test
SC-024 vs SC-046	1564.000	3.505	0.316	No
SC-024 vs SC-054	614.000	1.376	0.997	Do Not Test
SC-024 vs SC-056	137.000	0.307	1.000	Do Not Test
SC-056 vs SC-046	1427.000	3.198	0.460	Do Not Test
SC-056 vs SC-054	477.000	1.069	1.000	Do Not Test
SC-054 vs SC-046	950.000	2.129	0.919	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

01 December 2018 19:12:34

Data source: Tb.Th in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:12:34

Data source: Tb.Th in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	80.255	75.218	90.576
SC-047	27	0	97.072	91.428	102.353
SC-050	27	0	76.466	73.873	83.842
SC-021	27	0	96.255	90.034	104.993
SC-054	27	0	103.994	98.336	113.227
SC-056	27	0	104.779	96.999	120.982
SC-057	27	0	122.246	111.050	137.766
SC-060	27	0	93.201	83.781	101.424
SC-061	27	0	114.276	104.246	126.027
SC-024	27	0	102.448	97.156	111.509
SC-062	27	0	98.956	87.920	110.298

H = 141.059 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

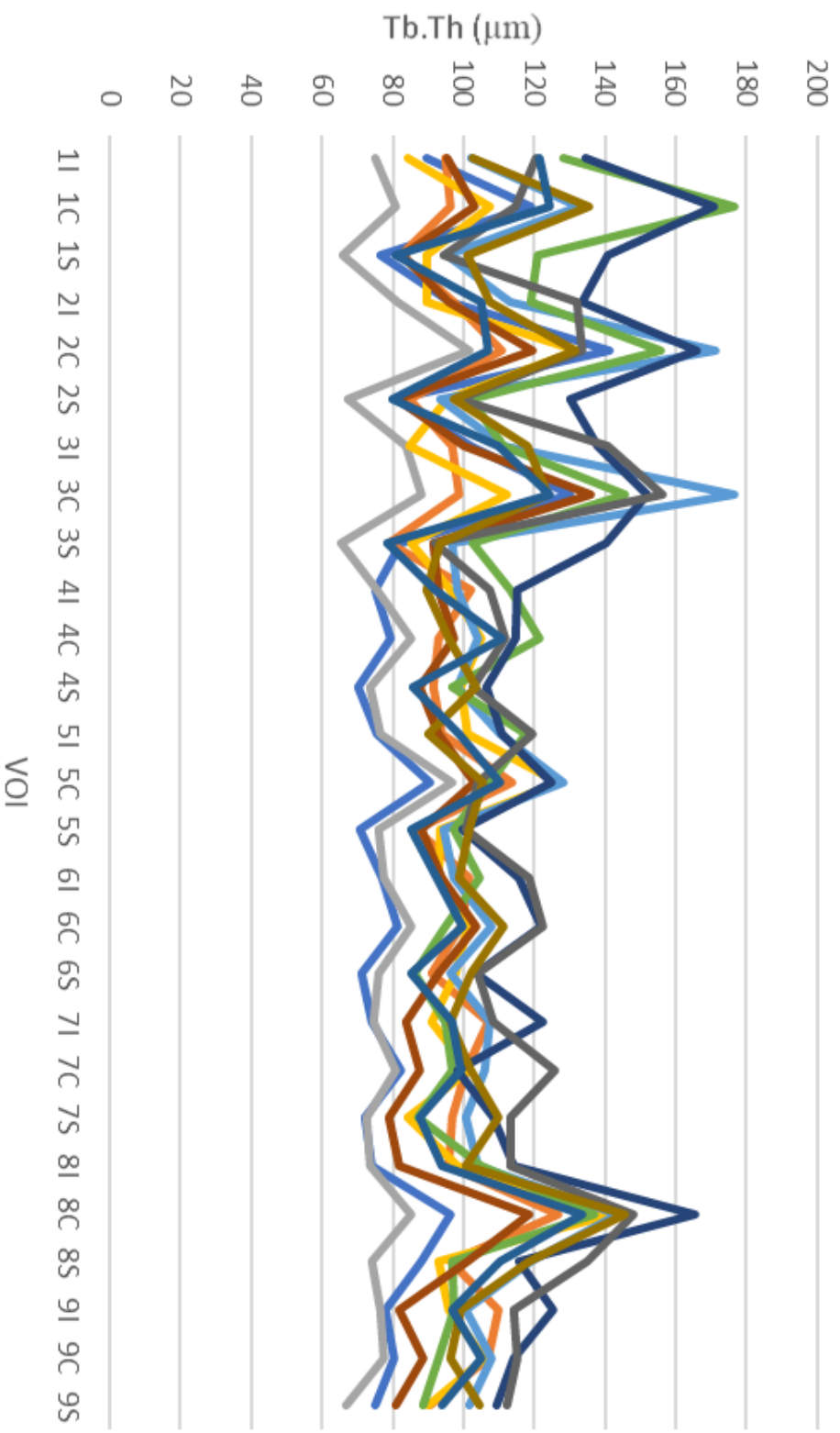
Comparison	Diff of Ranks	q	P	P<0.050
SC-057 vs SC-050	5591.000	12.529	<0.001	Yes
SC-057 vs SC-046	4685.000	10.499	<0.001	Yes
SC-057 vs SC-060	3533.000	7.917	<0.001	Yes
SC-057 vs SC-047	2959.000	6.631	<0.001	Yes
SC-057 vs SC-021	2860.000	6.409	<0.001	Yes
SC-057 vs SC-062	2662.000	5.965	<0.001	Yes
SC-057 vs SC-024	1762.000	3.948	0.160	No
SC-057 vs SC-056	1623.000	3.637	0.262	Do Not Test
SC-057 vs SC-054	1447.000	3.243	0.437	Do Not Test
SC-057 vs SC-061	587.000	1.315	0.998	Do Not Test
SC-061 vs SC-050	5004.000	11.213	<0.001	Yes
SC-061 vs SC-046	4098.000	9.183	<0.001	Yes
SC-061 vs SC-060	2946.000	6.602	<0.001	Yes
SC-061 vs SC-047	2372.000	5.315	0.007	Yes
SC-061 vs SC-021	2273.000	5.094	0.013	Yes
SC-061 vs SC-062	2075.000	4.650	0.039	Yes
SC-061 vs SC-024	1175.000	2.633	0.740	Do Not Test
SC-061 vs SC-056	1036.000	2.322	0.864	Do Not Test

SC-061 vs SC-054	860.000	1.927	0.959	Do Not Test
SC-054 vs SC-050	4144.000	9.286	<0.001	Yes
SC-054 vs SC-046	3238.000	7.256	<0.001	Yes
SC-054 vs SC-060	2086.000	4.675	0.037	Yes
SC-054 vs SC-047	1512.000	3.388	0.368	No
SC-054 vs SC-021	1413.000	3.166	0.475	Do Not Test
SC-054 vs SC-062	1215.000	2.723	0.698	Do Not Test
SC-054 vs SC-024	315.000	0.706	1.000	Do Not Test
SC-054 vs SC-056	176.000	0.394	1.000	Do Not Test
SC-056 vs SC-050	3968.000	8.892	<0.001	Yes
SC-056 vs SC-046	3062.000	6.862	<0.001	Yes
SC-056 vs SC-060	1910.000	4.280	0.086	No
SC-056 vs SC-047	1336.000	2.994	0.563	Do Not Test
SC-056 vs SC-021	1237.000	2.772	0.674	Do Not Test
SC-056 vs SC-062	1039.000	2.328	0.861	Do Not Test
SC-056 vs SC-024	139.000	0.311	1.000	Do Not Test
SC-024 vs SC-050	3829.000	8.580	<0.001	Yes
SC-024 vs SC-046	2923.000	6.550	<0.001	Yes
SC-024 vs SC-060	1771.000	3.969	0.154	Do Not Test
SC-024 vs SC-047	1197.000	2.682	0.717	Do Not Test
SC-024 vs SC-021	1098.000	2.461	0.813	Do Not Test
SC-024 vs SC-062	900.000	2.017	0.943	Do Not Test
SC-062 vs SC-050	2929.000	6.564	<0.001	Yes
SC-062 vs SC-046	2023.000	4.533	0.051	No
SC-062 vs SC-060	871.000	1.952	0.955	Do Not Test
SC-062 vs SC-047	297.000	0.666	1.000	Do Not Test
SC-062 vs SC-021	198.000	0.444	1.000	Do Not Test
SC-021 vs SC-050	2731.000	6.120	<0.001	Yes
SC-021 vs SC-046	1825.000	4.090	0.124	Do Not Test
SC-021 vs SC-060	673.000	1.508	0.993	Do Not Test
SC-021 vs SC-047	99.000	0.222	1.000	Do Not Test
SC-047 vs SC-050	2632.000	5.898	<0.001	Yes
SC-047 vs SC-046	1726.000	3.868	0.183	Do Not Test
SC-047 vs SC-060	574.000	1.286	0.998	Do Not Test
SC-060 vs SC-050	2058.000	4.612	0.043	Yes
SC-060 vs SC-046	1152.000	2.582	0.762	Do Not Test
SC-046 vs SC-050	906.000	2.030	0.941	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 4wks-2y Tb.Th



One Way Analysis of Variance

01 December 2018 19:54:40

Data source: Tb.N in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:54:40

Data source: Tb.N in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.00230	0.00159	0.00275
SC-047	27	0	0.00160	0.00137	0.00173
SC-050	27	0	0.00135	0.00124	0.00143
SC-021	27	0	0.00116	0.00110	0.00125
SC-054	27	0	0.00149	0.00122	0.00161
SC-056	27	0	0.00130	0.00110	0.00151
SC-057	27	0	0.00120	0.00109	0.00137
SC-060	27	0	0.00109	0.00103	0.00124
SC-061	27	0	0.000970	0.000900	0.00107
SC-024	27	0	0.00116	0.00103	0.00128
SC-062	27	0	0.00105	0.000930	0.00115

H = 163.177 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

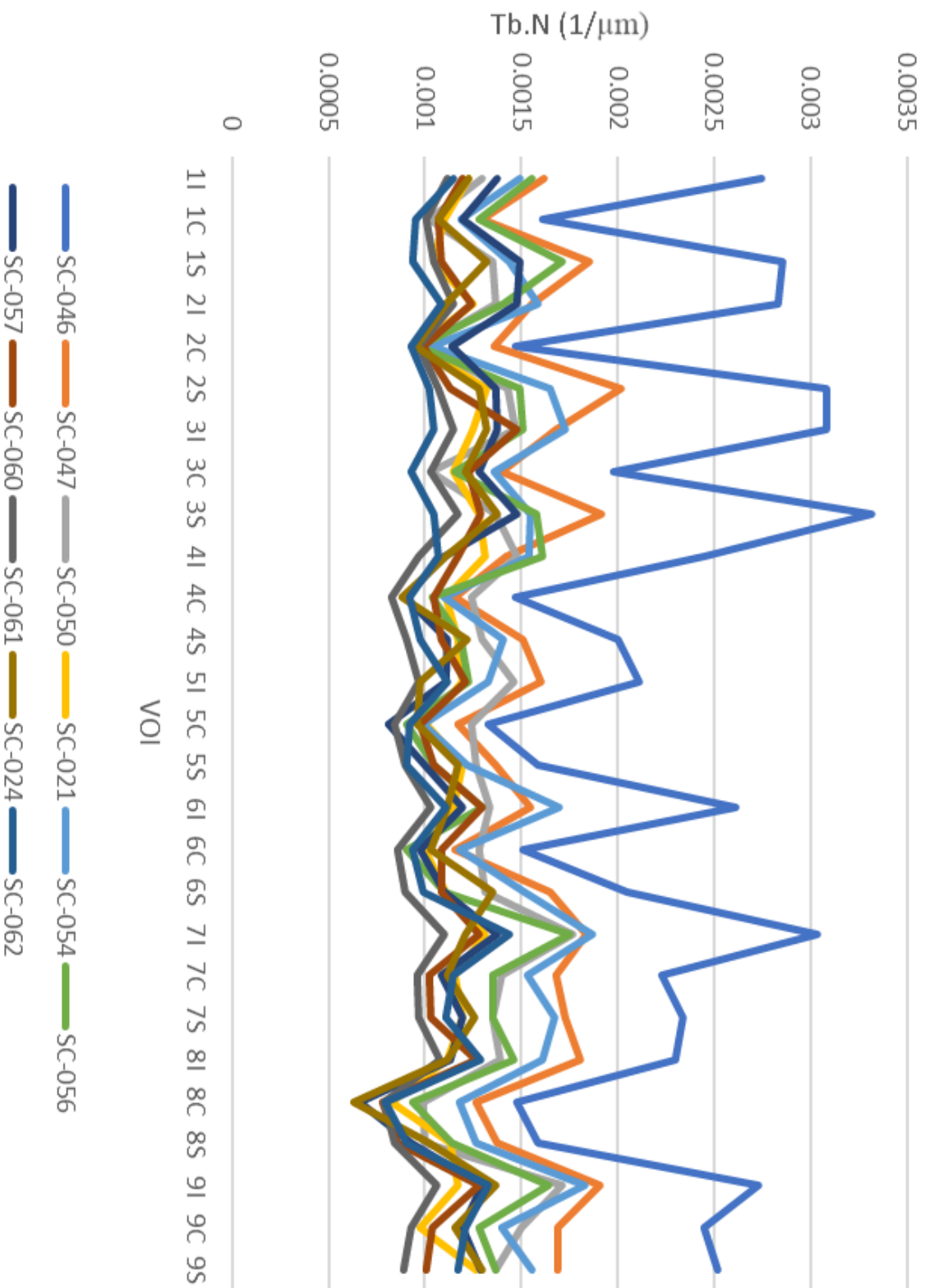
Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-061	5948.500	13.330	<0.001	Yes
SC-046 vs SC-062	5234.000	11.729	<0.001	Yes
SC-046 vs SC-060	4494.000	10.071	<0.001	Yes
SC-046 vs SC-021	4174.500	9.355	<0.001	Yes
SC-046 vs SC-024	4159.000	9.320	<0.001	Yes
SC-046 vs SC-057	3885.000	8.706	<0.001	Yes
SC-046 vs SC-056	2911.500	6.524	<0.001	Yes
SC-046 vs SC-050	2587.000	5.797	<0.001	Yes
SC-046 vs SC-054	1831.500	4.104	0.121	No
SC-046 vs SC-047	1119.000	2.508	0.794	Do Not Test
SC-047 vs SC-061	4829.500	10.822	<0.001	Yes
SC-047 vs SC-062	4115.000	9.221	<0.001	Yes
SC-047 vs SC-060	3375.000	7.563	<0.001	Yes
SC-047 vs SC-021	3055.500	6.847	<0.001	Yes
SC-047 vs SC-024	3040.000	6.812	<0.001	Yes
SC-047 vs SC-057	2766.000	6.198	<0.001	Yes
SC-047 vs SC-056	1792.500	4.017	0.142	No
SC-047 vs SC-050	1468.000	3.290	0.415	Do Not Test

SC-047 vs SC-054	712.500	1.597	0.990	Do Not Test
SC-054 vs SC-061	4117.000	9.226	<0.001	Yes
SC-054 vs SC-062	3402.500	7.625	<0.001	Yes
SC-054 vs SC-060	2662.500	5.966	<0.001	Yes
SC-054 vs SC-021	2343.000	5.250	0.008	Yes
SC-054 vs SC-024	2327.500	5.216	0.009	Yes
SC-054 vs SC-057	2053.500	4.602	0.044	Yes
SC-054 vs SC-056	1080.000	2.420	0.828	Do Not Test
SC-054 vs SC-050	755.500	1.693	0.984	Do Not Test
SC-050 vs SC-061	3361.500	7.533	<0.001	Yes
SC-050 vs SC-062	2647.000	5.932	<0.001	Yes
SC-050 vs SC-060	1907.000	4.273	0.088	No
SC-050 vs SC-021	1587.500	3.557	0.294	Do Not Test
SC-050 vs SC-024	1572.000	3.523	0.309	Do Not Test
SC-050 vs SC-057	1298.000	2.909	0.606	Do Not Test
SC-050 vs SC-056	324.500	0.727	1.000	Do Not Test
SC-056 vs SC-061	3037.000	6.806	<0.001	Yes
SC-056 vs SC-062	2322.500	5.204	0.009	Yes
SC-056 vs SC-060	1582.500	3.546	0.299	Do Not Test
SC-056 vs SC-021	1263.000	2.830	0.646	Do Not Test
SC-056 vs SC-024	1247.500	2.796	0.663	Do Not Test
SC-056 vs SC-057	973.500	2.182	0.906	Do Not Test
SC-057 vs SC-061	2063.500	4.624	0.042	Yes
SC-057 vs SC-062	1349.000	3.023	0.548	No
SC-057 vs SC-060	609.000	1.365	0.997	Do Not Test
SC-057 vs SC-021	289.500	0.649	1.000	Do Not Test
SC-057 vs SC-024	274.000	0.614	1.000	Do Not Test
SC-024 vs SC-061	1789.500	4.010	0.143	No
SC-024 vs SC-062	1075.000	2.409	0.833	Do Not Test
SC-024 vs SC-060	335.000	0.751	1.000	Do Not Test
SC-024 vs SC-021	15.500	0.0347	1.000	Do Not Test
SC-021 vs SC-061	1774.000	3.975	0.152	Do Not Test
SC-021 vs SC-062	1059.500	2.374	0.845	Do Not Test
SC-021 vs SC-060	319.500	0.716	1.000	Do Not Test
SC-060 vs SC-061	1454.500	3.259	0.429	Do Not Test
SC-060 vs SC-062	740.000	1.658	0.986	Do Not Test
SC-062 vs SC-061	714.500	1.601	0.989	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 4wks-2y Tb.N



One Way Analysis of Variance

01 December 2018 19:55:26

Data source: Tb.Sp in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:55:26

Data source: Tb.Sp in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	316.460	283.221	412.313
SC-047	27	0	373.946	342.389	432.297
SC-050	27	0	434.442	410.090	485.609
SC-021	27	0	579.280	553.864	630.299
SC-054	27	0	458.384	417.088	521.055
SC-056	27	0	507.858	466.990	622.711
SC-057	27	0	564.355	488.483	619.631
SC-060	27	0	555.490	511.683	630.284
SC-061	27	0	642.281	604.801	673.640
SC-024	27	0	556.271	522.515	663.674
SC-062	27	0	527.757	479.658	630.646

H = 174.547 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

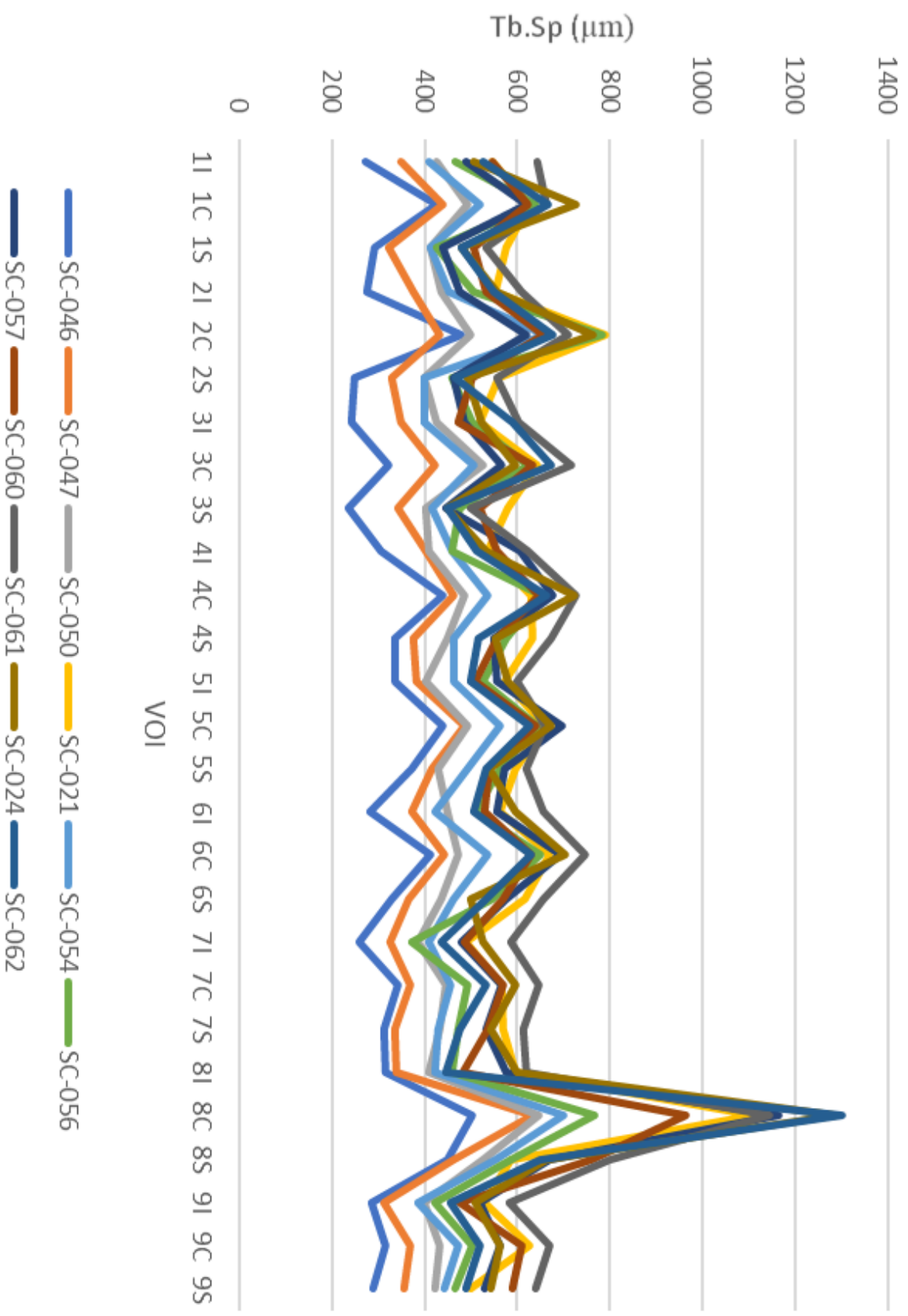
Comparison	Diff of Ranks	q	P	P<0.050
SC-061 vs SC-046	5711.000	12.798	<0.001	Yes
SC-061 vs SC-047	5160.000	11.563	<0.001	Yes
SC-061 vs SC-050	4229.000	9.477	<0.001	Yes
SC-061 vs SC-054	3619.000	8.110	<0.001	Yes
SC-061 vs SC-056	2254.000	5.051	0.014	Yes
SC-061 vs SC-062	1916.000	4.294	0.084	No
SC-061 vs SC-057	1523.000	3.413	0.357	Do Not Test
SC-061 vs SC-060	1419.000	3.180	0.469	Do Not Test
SC-061 vs SC-024	1211.000	2.714	0.702	Do Not Test
SC-061 vs SC-021	854.000	1.914	0.961	Do Not Test
SC-021 vs SC-046	4857.000	10.884	<0.001	Yes
SC-021 vs SC-047	4306.000	9.649	<0.001	Yes
SC-021 vs SC-050	3375.000	7.563	<0.001	Yes
SC-021 vs SC-054	2765.000	6.196	<0.001	Yes
SC-021 vs SC-056	1400.000	3.137	0.490	No
SC-021 vs SC-062	1062.000	2.380	0.843	Do Not Test
SC-021 vs SC-057	669.000	1.499	0.994	Do Not Test
SC-021 vs SC-060	565.000	1.266	0.998	Do Not Test

SC-021 vs SC-024	357.000	0.800	1.000	Do Not Test
SC-024 vs SC-046	4500.000	10.084	<0.001	Yes
SC-024 vs SC-047	3949.000	8.849	<0.001	Yes
SC-024 vs SC-050	3018.000	6.763	<0.001	Yes
SC-024 vs SC-054	2408.000	5.396	0.005	Yes
SC-024 vs SC-056	1043.000	2.337	0.858	Do Not Test
SC-024 vs SC-062	705.000	1.580	0.990	Do Not Test
SC-024 vs SC-057	312.000	0.699	1.000	Do Not Test
SC-024 vs SC-060	208.000	0.466	1.000	Do Not Test
SC-060 vs SC-046	4292.000	9.618	<0.001	Yes
SC-060 vs SC-047	3741.000	8.383	<0.001	Yes
SC-060 vs SC-050	2810.000	6.297	<0.001	Yes
SC-060 vs SC-054	2200.000	4.930	0.020	Yes
SC-060 vs SC-056	835.000	1.871	0.966	Do Not Test
SC-060 vs SC-062	497.000	1.114	0.999	Do Not Test
SC-060 vs SC-057	104.000	0.233	1.000	Do Not Test
SC-057 vs SC-046	4188.000	9.385	<0.001	Yes
SC-057 vs SC-047	3637.000	8.150	<0.001	Yes
SC-057 vs SC-050	2706.000	6.064	<0.001	Yes
SC-057 vs SC-054	2096.000	4.697	0.035	Yes
SC-057 vs SC-056	731.000	1.638	0.987	Do Not Test
SC-057 vs SC-062	393.000	0.881	1.000	Do Not Test
SC-062 vs SC-046	3795.000	8.504	<0.001	Yes
SC-062 vs SC-047	3244.000	7.269	<0.001	Yes
SC-062 vs SC-050	2313.000	5.183	0.010	Yes
SC-062 vs SC-054	1703.000	3.816	0.199	No
SC-062 vs SC-056	338.000	0.757	1.000	Do Not Test
SC-056 vs SC-046	3457.000	7.747	<0.001	Yes
SC-056 vs SC-047	2906.000	6.512	<0.001	Yes
SC-056 vs SC-050	1975.000	4.426	0.064	No
SC-056 vs SC-054	1365.000	3.059	0.530	Do Not Test
SC-054 vs SC-046	2092.000	4.688	0.036	Yes
SC-054 vs SC-047	1541.000	3.453	0.339	No
SC-054 vs SC-050	610.000	1.367	0.997	Do Not Test
SC-050 vs SC-046	1482.000	3.321	0.400	No
SC-050 vs SC-047	931.000	2.086	0.929	Do Not Test
SC-047 vs SC-046	551.000	1.235	0.999	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 4wks-2y Tb.Sp



One Way Analysis of Variance

01 December 2018 19:55:55

Data source: DA in L3 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.309)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 19:55:55

Data source: DA in L3 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.371	0.335	0.404
SC-047	27	0	0.364	0.316	0.434
SC-050	27	0	0.396	0.343	0.452
SC-021	27	0	0.359	0.328	0.406
SC-054	27	0	0.390	0.295	0.416
SC-056	27	0	0.377	0.235	0.436
SC-057	27	0	0.344	0.222	0.440
SC-060	27	0	0.455	0.332	0.512
SC-061	27	0	0.281	0.249	0.378
SC-024	27	0	0.306	0.224	0.411
SC-062	27	0	0.358	0.229	0.427

H = 27.826 with 10 degrees of freedom. (P = 0.002)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.002)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

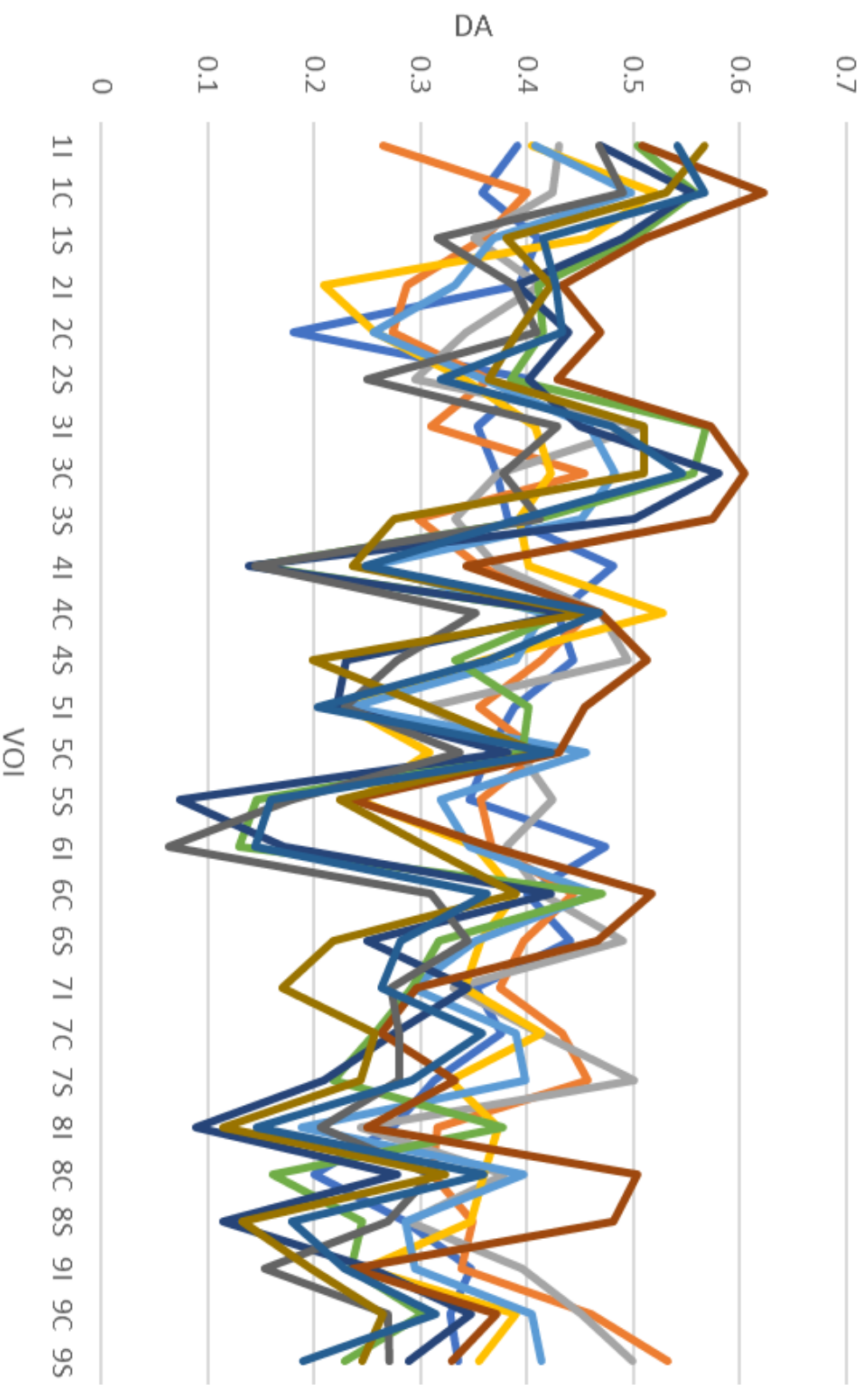
Comparison	Diff of Ranks	q	P	P<0.050
SC-060 vs SC-061	2643.000	5.923	<0.001	Yes
SC-060 vs SC-024	2216.000	4.966	0.018	Yes
SC-060 vs SC-057	1890.000	4.235	0.094	No
SC-060 vs SC-062	1798.000	4.029	0.139	Do Not Test
SC-060 vs SC-056	1562.000	3.500	0.318	Do Not Test
SC-060 vs SC-021	1444.000	3.236	0.441	Do Not Test
SC-060 vs SC-046	1294.000	2.900	0.611	Do Not Test
SC-060 vs SC-054	1188.000	2.662	0.726	Do Not Test
SC-060 vs SC-047	1051.500	2.356	0.852	Do Not Test
SC-060 vs SC-050	522.500	1.171	0.999	Do Not Test
SC-050 vs SC-061	2120.500	4.752	0.031	Yes
SC-050 vs SC-024	1693.500	3.795	0.206	No
SC-050 vs SC-057	1367.500	3.064	0.527	Do Not Test
SC-050 vs SC-062	1275.500	2.858	0.632	Do Not Test
SC-050 vs SC-056	1039.500	2.329	0.861	Do Not Test
SC-050 vs SC-021	921.500	2.065	0.934	Do Not Test

SC-050 vs SC-046	771.500	1.729	0.981	Do Not Test
SC-050 vs SC-054	665.500	1.491	0.994	Do Not Test
SC-050 vs SC-047	529.000	1.185	0.999	Do Not Test
SC-047 vs SC-061	1591.500	3.566	0.290	No
SC-047 vs SC-024	1164.500	2.610	0.750	Do Not Test
SC-047 vs SC-057	838.500	1.879	0.965	Do Not Test
SC-047 vs SC-062	746.500	1.673	0.985	Do Not Test
SC-047 vs SC-056	510.500	1.144	0.999	Do Not Test
SC-047 vs SC-021	392.500	0.880	1.000	Do Not Test
SC-047 vs SC-046	242.500	0.543	1.000	Do Not Test
SC-047 vs SC-054	136.500	0.306	1.000	Do Not Test
SC-054 vs SC-061	1455.000	3.261	0.429	Do Not Test
SC-054 vs SC-024	1028.000	2.304	0.870	Do Not Test
SC-054 vs SC-057	702.000	1.573	0.991	Do Not Test
SC-054 vs SC-062	610.000	1.367	0.997	Do Not Test
SC-054 vs SC-056	374.000	0.838	1.000	Do Not Test
SC-054 vs SC-021	256.000	0.574	1.000	Do Not Test
SC-054 vs SC-046	106.000	0.238	1.000	Do Not Test
SC-046 vs SC-061	1349.000	3.023	0.548	Do Not Test
SC-046 vs SC-024	922.000	2.066	0.933	Do Not Test
SC-046 vs SC-057	596.000	1.336	0.997	Do Not Test
SC-046 vs SC-062	504.000	1.129	0.999	Do Not Test
SC-046 vs SC-056	268.000	0.601	1.000	Do Not Test
SC-046 vs SC-021	150.000	0.336	1.000	Do Not Test
SC-021 vs SC-061	1199.000	2.687	0.715	Do Not Test
SC-021 vs SC-024	772.000	1.730	0.981	Do Not Test
SC-021 vs SC-057	446.000	0.999	1.000	Do Not Test
SC-021 vs SC-062	354.000	0.793	1.000	Do Not Test
SC-021 vs SC-056	118.000	0.264	1.000	Do Not Test
SC-056 vs SC-061	1081.000	2.422	0.828	Do Not Test
SC-056 vs SC-024	654.000	1.466	0.995	Do Not Test
SC-056 vs SC-057	328.000	0.735	1.000	Do Not Test
SC-056 vs SC-062	236.000	0.529	1.000	Do Not Test
SC-062 vs SC-061	845.000	1.894	0.963	Do Not Test
SC-062 vs SC-024	418.000	0.937	1.000	Do Not Test
SC-062 vs SC-057	92.000	0.206	1.000	Do Not Test
SC-057 vs SC-061	753.000	1.687	0.984	Do Not Test
SC-057 vs SC-024	326.000	0.731	1.000	Do Not Test
SC-024 vs SC-061	427.000	0.957	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 4wks-2y DA



One Way Analysis of Variance

14 December 2018 11:36:54

Data source: BV/TV in L3 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:36:54

Data source: BV/TV in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	13.052	11.802	14.447
SC-002	27	0	12.280	10.989	13.759
SC-025	27	0	9.832	8.905	10.862
SC-010	27	0	13.842	11.060	15.847
SC-026	27	0	11.852	10.921	13.310
SC-229	27	0	10.801	9.685	13.759

H = 37.279 with 5 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

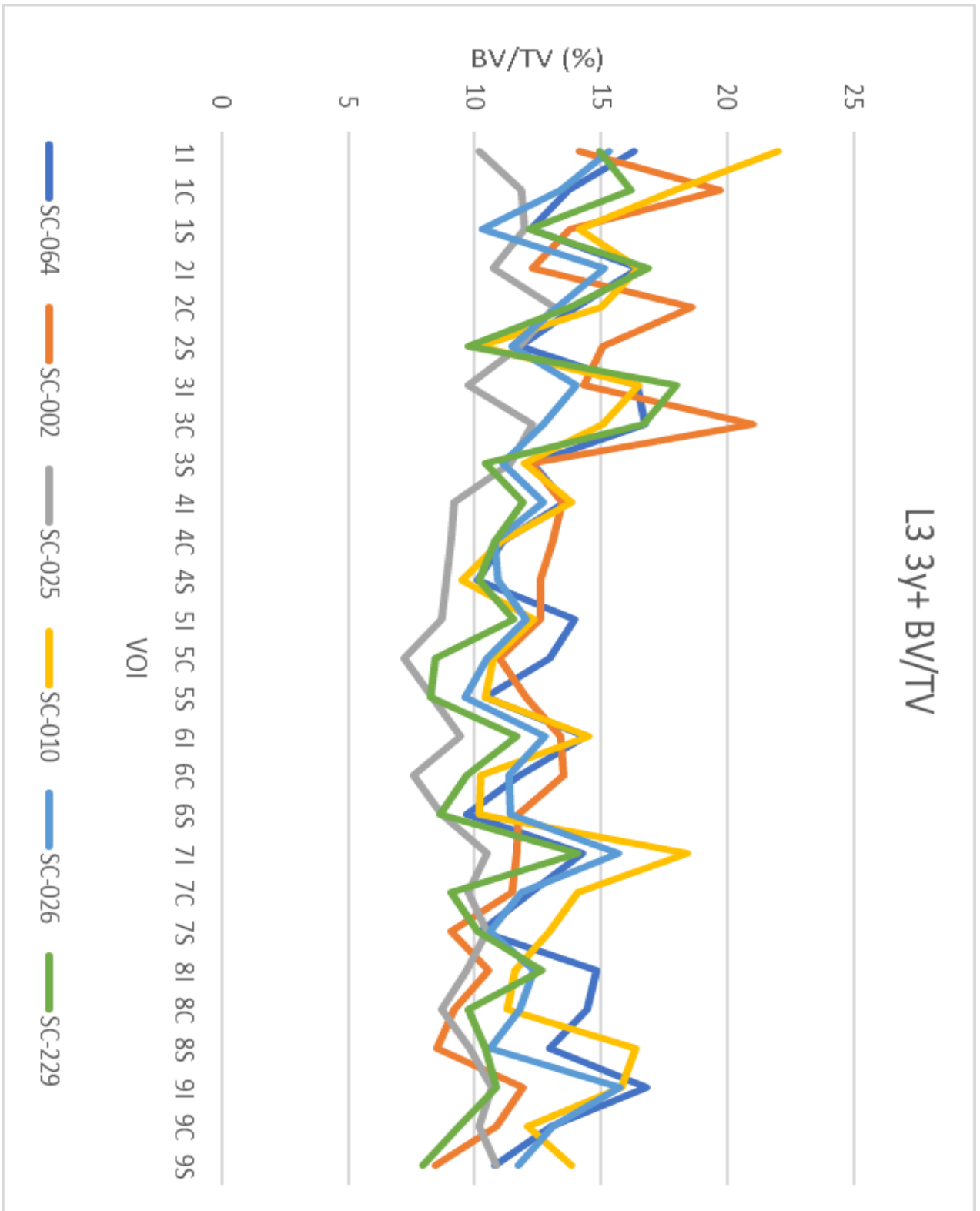
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-064 vs SC-025	1727.000	7.085	<0.001	Yes
SC-064 vs SC-229	966.000	3.963	0.057	No
SC-064 vs SC-026	432.000	1.772	0.811	Do Not Test
SC-064 vs SC-002	337.000	1.383	0.925	Do Not Test
SC-064 vs SC-010	3.000	0.0123	1.000	Do Not Test
SC-010 vs SC-025	1724.000	7.073	<0.001	Yes
SC-010 vs SC-229	963.000	3.951	0.059	Do Not Test
SC-010 vs SC-026	429.000	1.760	0.815	Do Not Test
SC-010 vs SC-002	334.000	1.370	0.928	Do Not Test
SC-002 vs SC-025	1390.000	5.703	<0.001	Yes
SC-002 vs SC-229	629.000	2.581	0.450	Do Not Test
SC-002 vs SC-026	95.000	0.390	1.000	Do Not Test
SC-026 vs SC-025	1295.000	5.313	0.002	Yes
SC-026 vs SC-229	534.000	2.191	0.632	Do Not Test
SC-229 vs SC-025	761.000	3.122	0.234	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the

enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.



One Way Analysis of Variance

14 December 2018 11:37:49

Data source: SMI in L3 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:37:49

Data source: SMI in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	1.520	1.176	1.715
SC-002	27	0	1.726	1.330	1.888
SC-025	27	0	1.513	1.408	1.633
SC-010	27	0	1.649	1.421	1.802
SC-026	27	0	1.689	1.484	1.789
SC-229	27	0	1.904	1.608	2.046

H = 33.391 with 5 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

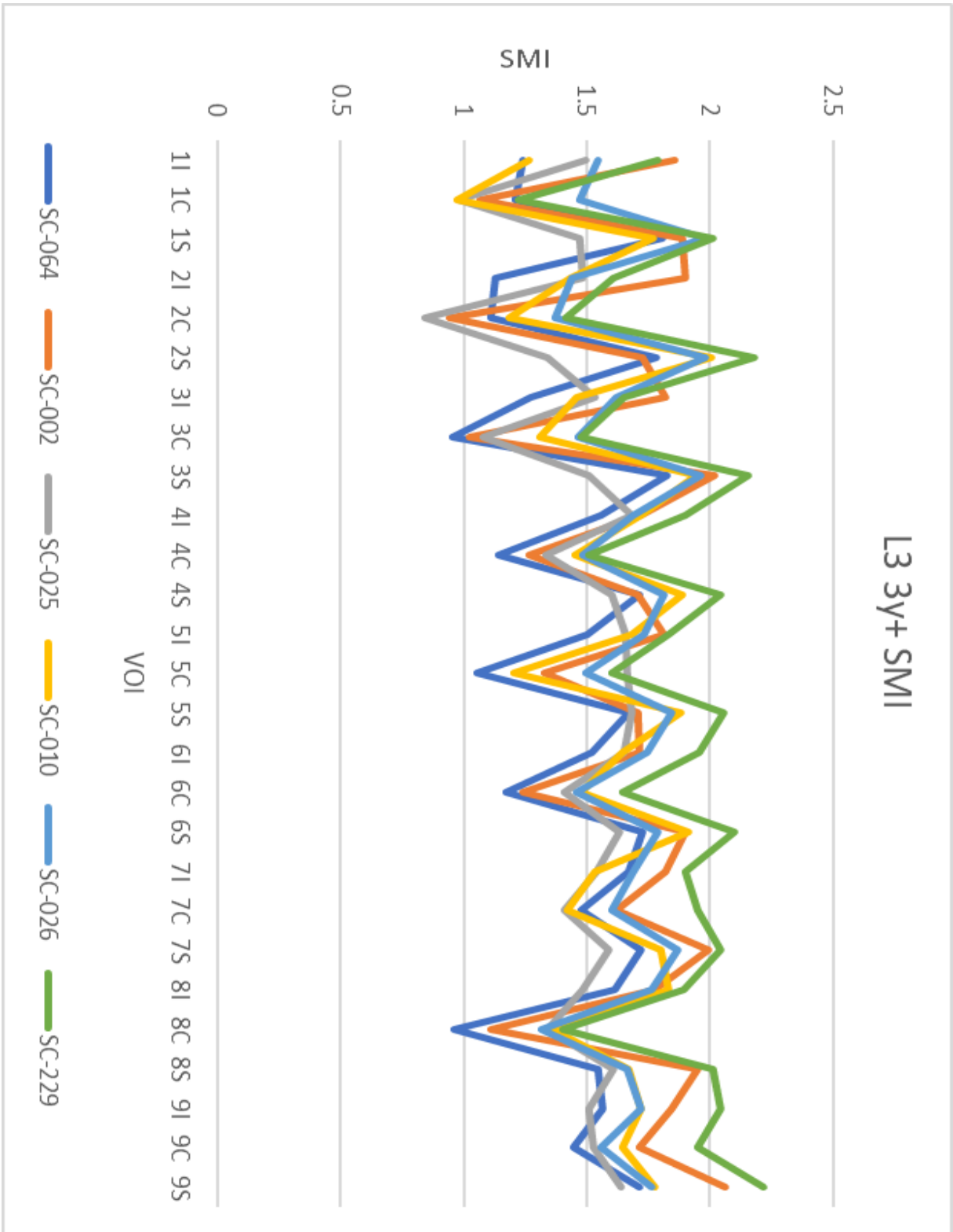
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-229 vs SC-025	1672.500	6.862	<0.001	Yes
SC-229 vs SC-064	1597.000	6.552	<0.001	Yes
SC-229 vs SC-010	1046.500	4.293	0.029	Yes
SC-229 vs SC-026	783.000	3.212	0.206	No
SC-229 vs SC-002	628.000	2.576	0.452	Do Not Test
SC-002 vs SC-025	1044.500	4.285	0.030	Yes
SC-002 vs SC-064	969.000	3.975	0.056	No
SC-002 vs SC-010	418.500	1.717	0.830	Do Not Test
SC-002 vs SC-026	155.000	0.636	0.998	Do Not Test
SC-026 vs SC-025	889.500	3.649	0.102	No
SC-026 vs SC-064	814.000	3.340	0.170	Do Not Test
SC-026 vs SC-010	263.500	1.081	0.973	Do Not Test
SC-010 vs SC-025	626.000	2.568	0.455	Do Not Test
SC-010 vs SC-064	550.500	2.258	0.601	Do Not Test
SC-064 vs SC-025	75.500	0.310	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the

enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.



One Way Analysis of Variance

14 December 2018 11:38:33

Data source: Tb.Th in L3 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:38:33

Data source: Tb.Th in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	108.088	97.684	124.443
SC-002	27	0	98.834	88.635	116.530
SC-025	27	0	87.393	83.213	93.901
SC-010	27	0	112.869	101.753	139.520
SC-026	27	0	112.141	105.315	121.101
SC-229	27	0	99.761	93.338	123.640

H = 47.512 with 5 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

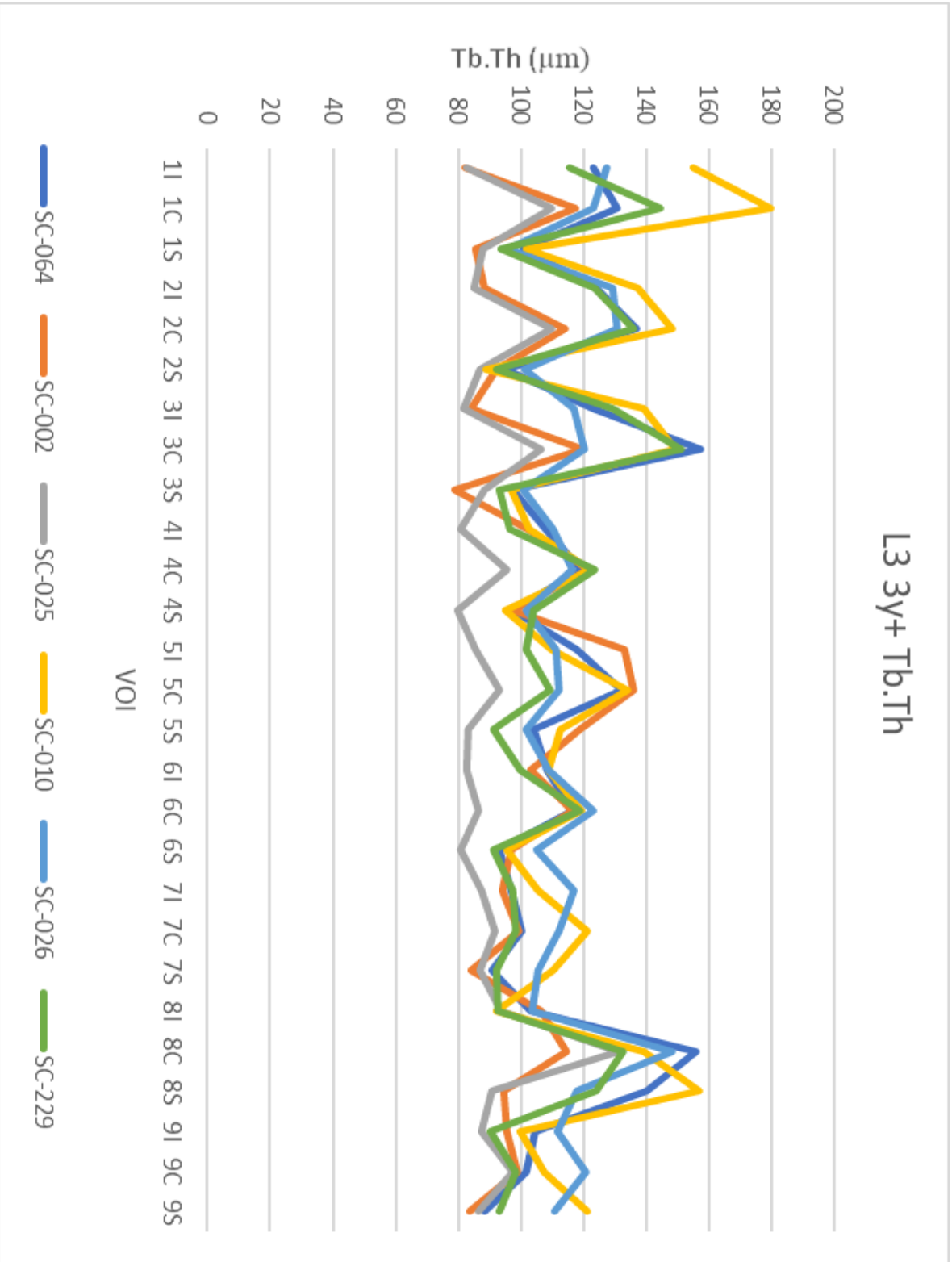
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-010 vs SC-025	1983.000	8.135	<0.001	Yes
SC-010 vs SC-002	1049.000	4.304	0.028	Yes
SC-010 vs SC-229	650.000	2.667	0.411	No
SC-010 vs SC-064	291.000	1.194	0.959	Do Not Test
SC-010 vs SC-026	68.000	0.279	1.000	Do Not Test
SC-026 vs SC-025	1915.000	7.856	<0.001	Yes
SC-026 vs SC-002	981.000	4.025	0.051	No
SC-026 vs SC-229	582.000	2.388	0.540	Do Not Test
SC-026 vs SC-064	223.000	0.915	0.987	Do Not Test
SC-064 vs SC-025	1692.000	6.942	<0.001	Yes
SC-064 vs SC-002	758.000	3.110	0.238	Do Not Test
SC-064 vs SC-229	359.000	1.473	0.904	Do Not Test
SC-229 vs SC-025	1333.000	5.469	0.002	Yes
SC-229 vs SC-002	399.000	1.637	0.857	Do Not Test
SC-002 vs SC-025	934.000	3.832	0.073	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the

enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.



One Way Analysis of Variance

14 December 2018 11:39:13

Data source: Tb.N in L3 3y+

Normality Test (Shapiro-Wilk): Passed (P = 0.394)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:39:13

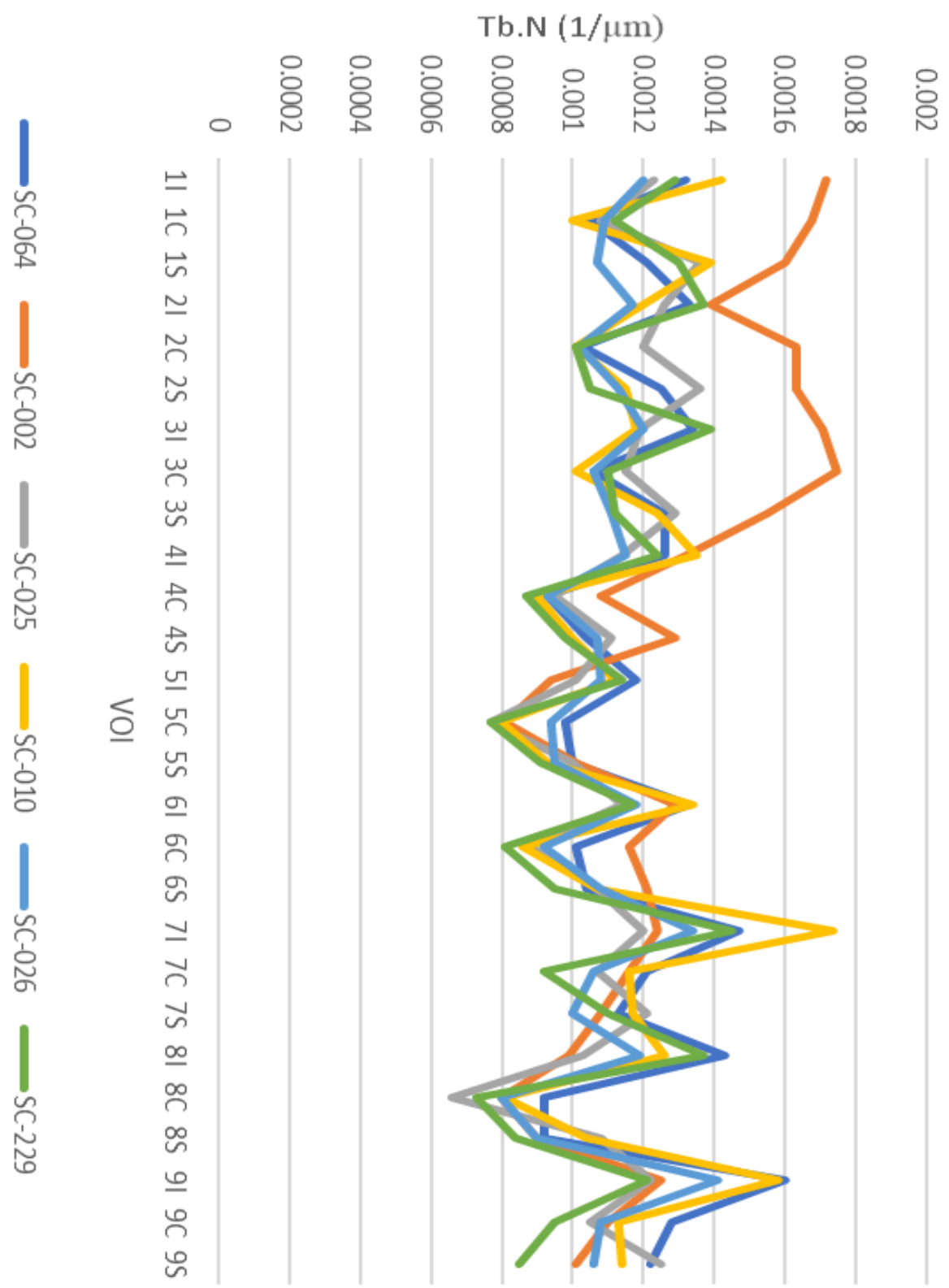
Data source: Tb.N in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	0.00121	0.00103	0.00132
SC-002	27	0	0.00124	0.00101	0.00160
SC-025	27	0	0.00114	0.00103	0.00122
SC-010	27	0	0.00114	0.001000	0.00126
SC-026	27	0	0.00108	0.001000	0.00117
SC-229	27	0	0.00110	0.000910	0.00124

H = 10.061 with 5 degrees of freedom. (P = 0.074)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.074)

L3 3y+ Tb.N



One Way Analysis of Variance

14 December 2018 11:39:53

Data source: Tb.Sp in L3 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:39:53

Data source: Tb.Sp in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	616.017	509.384	807.529
SC-002	27	0	488.677	464.664	618.202
SC-025	27	0	575.598	536.003	673.289
SC-010	27	0	574.102	467.407	737.707
SC-026	27	0	576.393	530.361	655.738
SC-229	27	0	509.329	450.654	662.184

H = 15.433 with 5 degrees of freedom. (P = 0.009)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.009)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

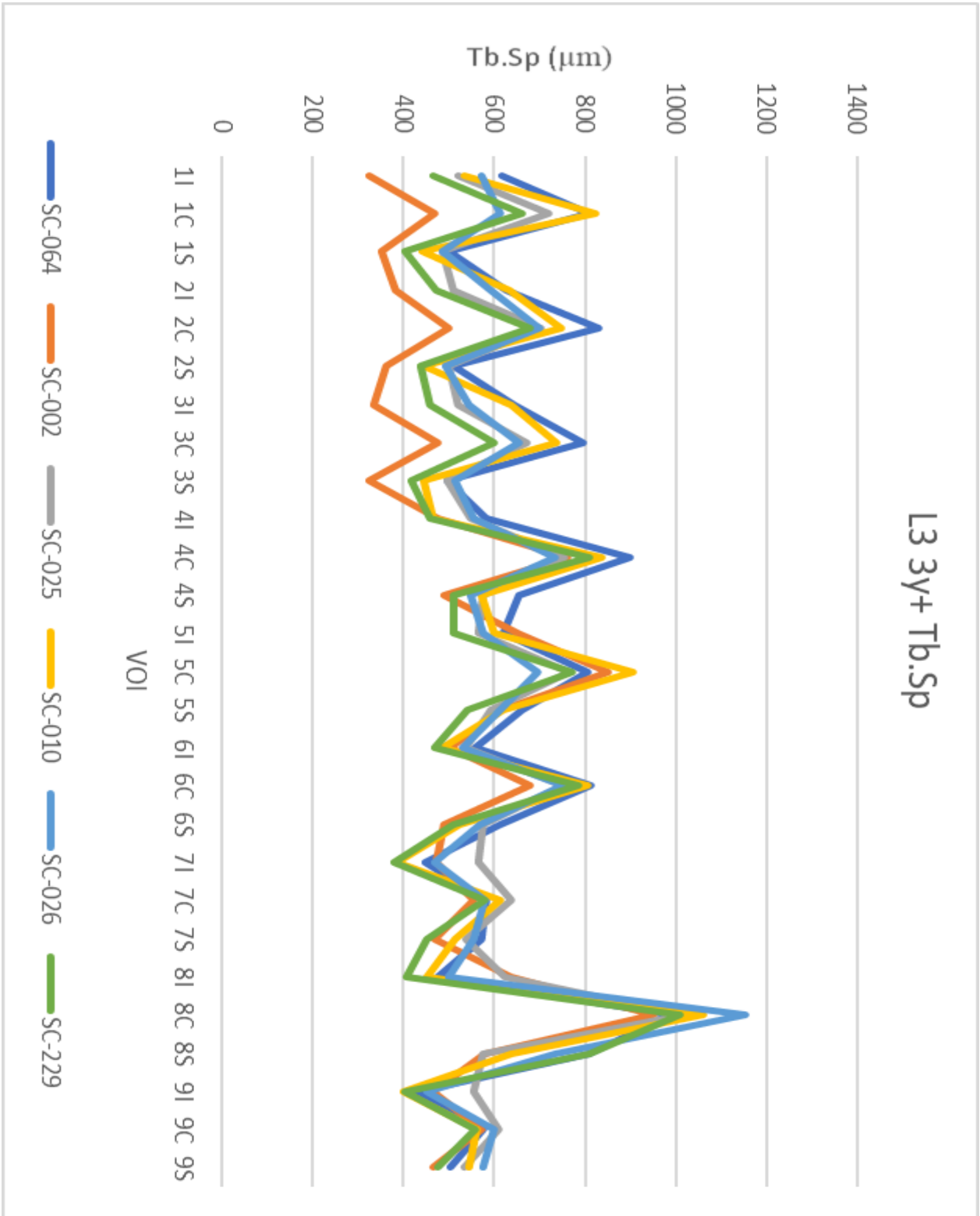
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-064 vs SC-002	1096.000	4.496	0.019	Yes
SC-064 vs SC-229	944.000	3.873	0.068	No
SC-064 vs SC-010	430.000	1.764	0.814	Do Not Test
SC-064 vs SC-026	311.000	1.276	0.946	Do Not Test
SC-064 vs SC-025	228.000	0.935	0.986	Do Not Test
SC-025 vs SC-002	868.000	3.561	0.119	No
SC-025 vs SC-229	716.000	2.937	0.299	Do Not Test
SC-025 vs SC-010	202.000	0.829	0.992	Do Not Test
SC-025 vs SC-026	83.000	0.341	1.000	Do Not Test
SC-026 vs SC-002	785.000	3.221	0.203	Do Not Test
SC-026 vs SC-229	633.000	2.597	0.442	Do Not Test
SC-026 vs SC-010	119.000	0.488	0.999	Do Not Test
SC-010 vs SC-002	666.000	2.732	0.382	Do Not Test
SC-010 vs SC-229	514.000	2.109	0.670	Do Not Test
SC-229 vs SC-002	152.000	0.624	0.998	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the

enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.



One Way Analysis of Variance

14 December 2018 11:40:26

Data source: DA in L3 3y+

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

14 December 2018 11:40:26

Data source: DA in L3 3y+

Group	N	Missing	Median	25%	75%
SC-064	27	0	0.342	0.216	0.510
SC-002	27	0	0.452	0.356	0.537
SC-025	27	0	0.332	0.210	0.498
SC-010	27	0	0.284	0.177	0.373
SC-026	27	0	0.304	0.242	0.456
SC-229	27	0	0.313	0.187	0.394

H = 20.620 with 5 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

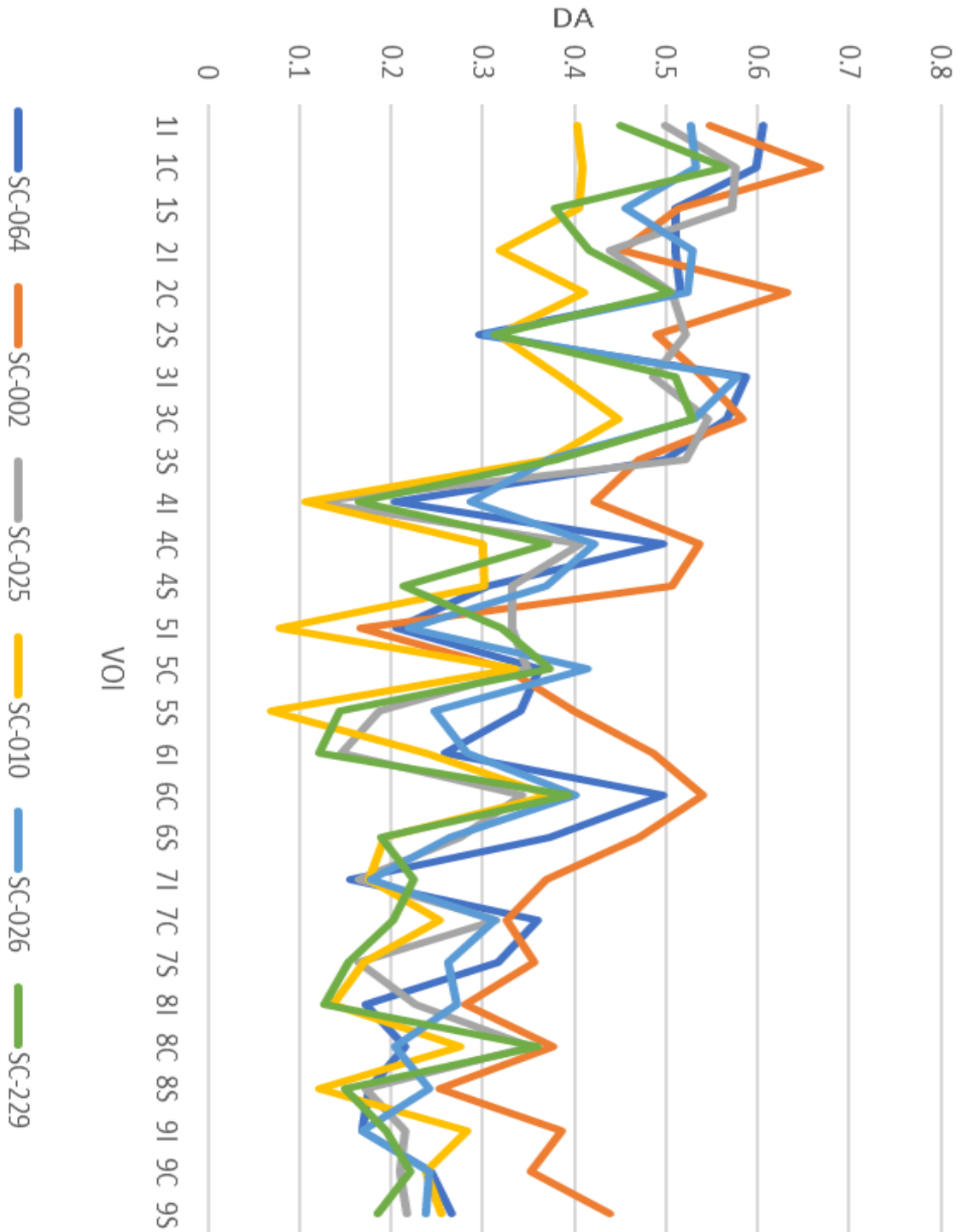
Comparison	Diff of Ranks	q	P	P<0.050
SC-002 vs SC-010	1430.000	5.867	<0.001	Yes
SC-002 vs SC-229	1227.000	5.034	0.005	Yes
SC-002 vs SC-025	906.000	3.717	0.091	No
SC-002 vs SC-026	794.000	3.257	0.193	Do Not Test
SC-002 vs SC-064	716.000	2.937	0.299	Do Not Test
SC-064 vs SC-010	714.000	2.929	0.303	No
SC-064 vs SC-229	511.000	2.096	0.676	Do Not Test
SC-064 vs SC-025	190.000	0.779	0.994	Do Not Test
SC-064 vs SC-026	78.000	0.320	1.000	Do Not Test
SC-026 vs SC-010	636.000	2.609	0.437	Do Not Test
SC-026 vs SC-229	433.000	1.776	0.809	Do Not Test
SC-026 vs SC-025	112.000	0.459	1.000	Do Not Test
SC-025 vs SC-010	524.000	2.150	0.652	Do Not Test
SC-025 vs SC-229	321.000	1.317	0.938	Do Not Test
SC-229 vs SC-010	203.000	0.833	0.992	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the

enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L3 3y+ DA



One Way Analysis of Variance

01 December 2018 20:20:06

Data source: BV/TV in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.962)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.752)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	34.454	4.531	0.872
SC-096	27	0	34.218	4.665	0.898

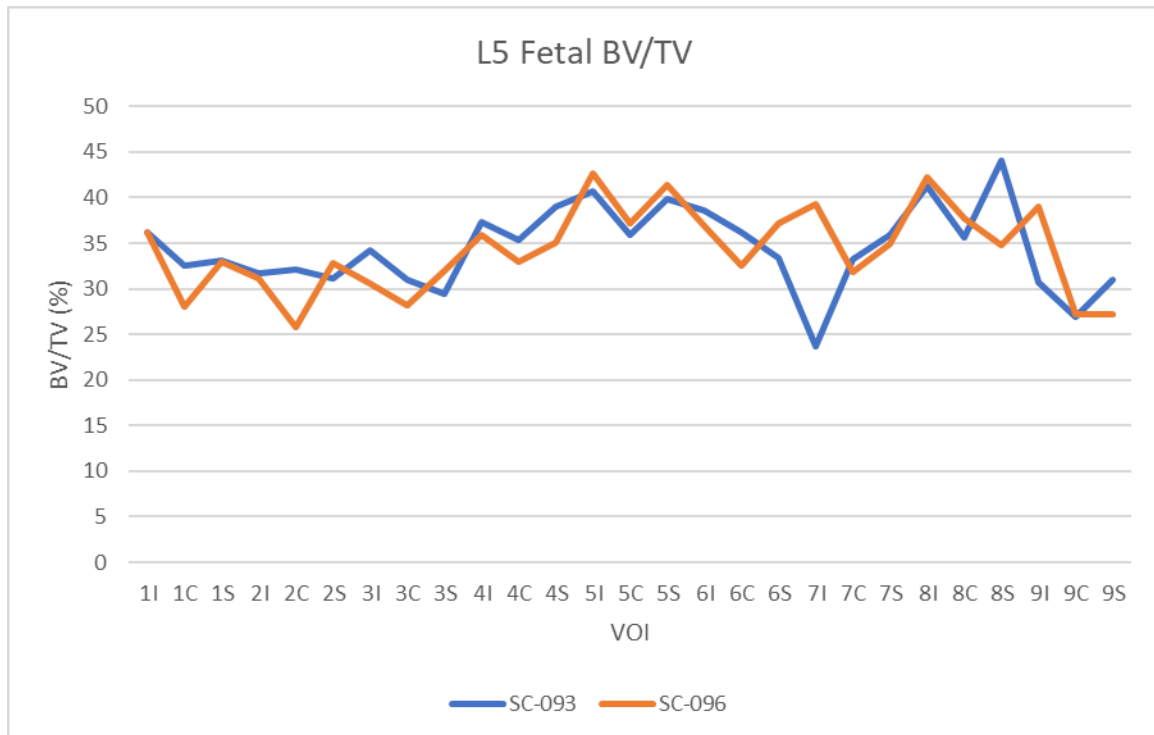
Source of Variation	DF	SS	MS	F	P
Between Groups	1	0.748	0.748	0.0354	0.852
Residual	52	1099.712	21.148		
Total	53	1100.460			

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.852).

Power of performed test with alpha = 0.050: 0.050

The power of the performed test (0.050) is below the desired power of 0.800.

Less than desired power indicates you are less likely to detect a difference when one actually exists. Negative results should be interpreted cautiously.



One Way Analysis of Variance

01 December 2018 20:20:30

Data source: SMI in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

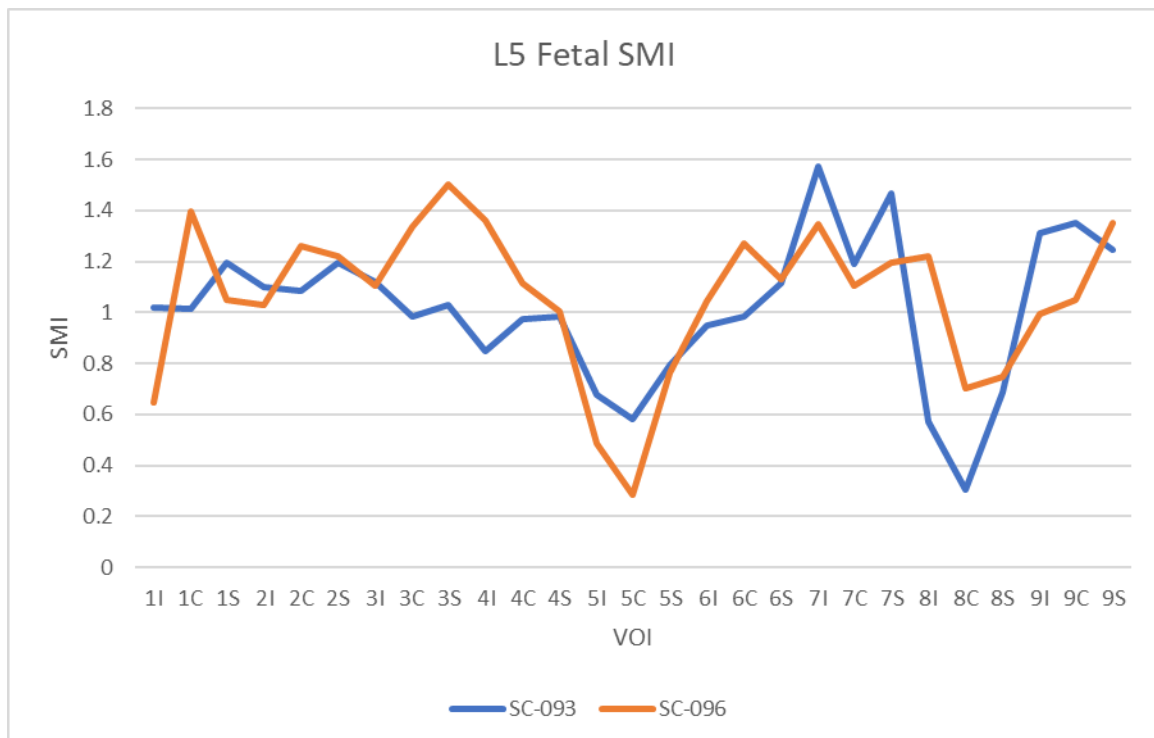
01 December 2018 20:20:30

Data source: SMI in L5 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-093	27	0	1.018	0.847	1.194
SC-096	27	0	1.107	0.996	1.272

H = 1.488 with 1 degrees of freedom. (P = 0.223)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.223)



One Way Analysis of Variance

01 December 2018 20:20:54

Data source: Tb.Th in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:20:54

Data source: Tb.Th in L5 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-093	27	0	68.656	54.369	87.939
SC-096	27	0	81.384	69.231	99.838

H = 6.336 with 1 degrees of freedom. (P = 0.012)

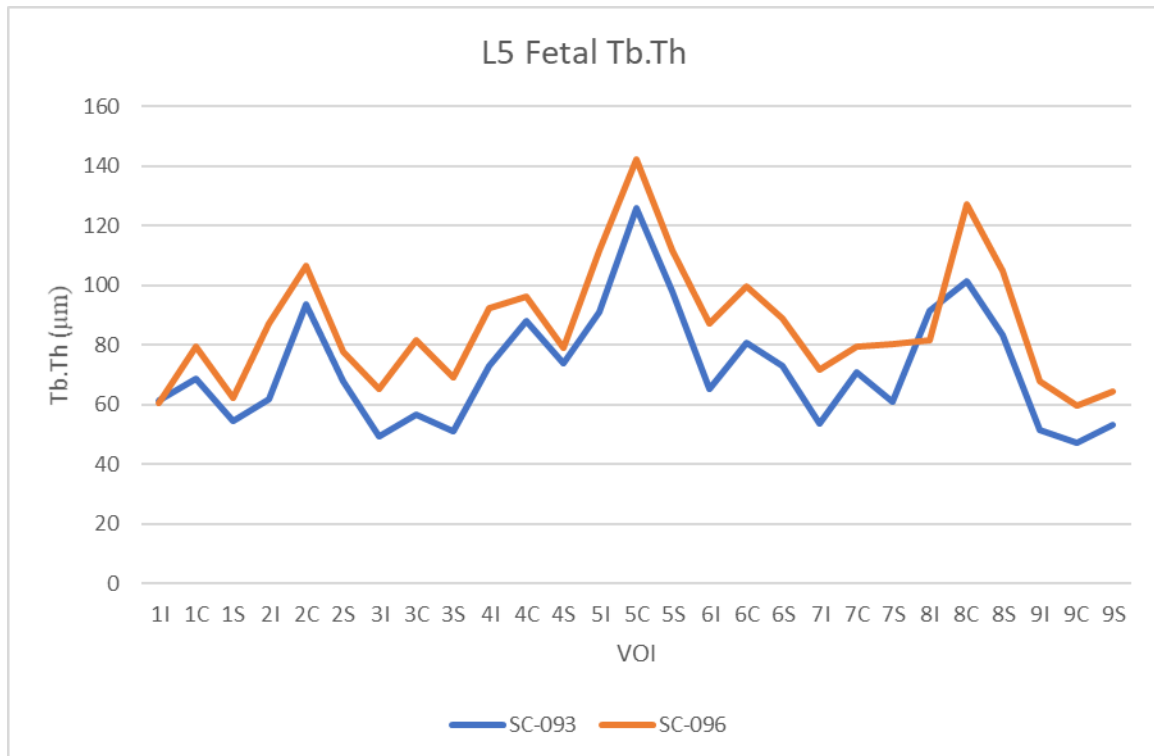
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.012)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-093	291.000	3.560	0.012	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

Data source: Tb.N in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.956)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.668)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	0.00499	0.000946	0.000182
SC-096	27	0	0.00412	0.000902	0.000174

Source of Variation	DF	SS	MS	F	P
Between Groups	1	0.0000102	0.0000102	11.885	0.001
Residual	52	0.0000444	0.000000855		
Total	53	0.0000546			

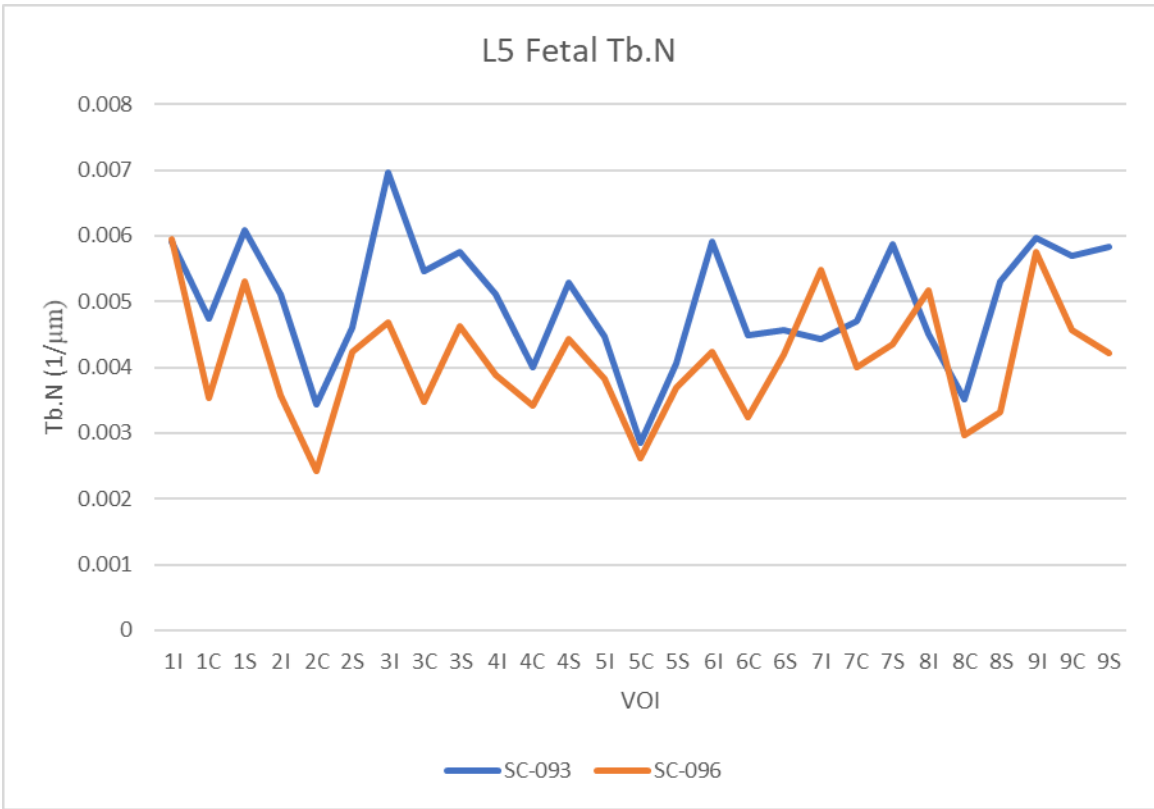
The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.001).

Power of performed test with alpha = 0.050: 0.899

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):
Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
SC-093 vs. SC-096	0.000867	3.447	0.001	Yes



One Way Analysis of Variance

01 December 2018 20:22:03

Data source: Tb.Sp in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:22:03

Data source: Tb.Sp in L5 Between Fetal Ind Only

Group	N	Missing	Median	25%	75%
SC-093	27	0	136.442	122.652	151.250
SC-096	27	0	182.246	160.315	203.388

H = 15.764 with 1 degrees of freedom. (P = <0.001)

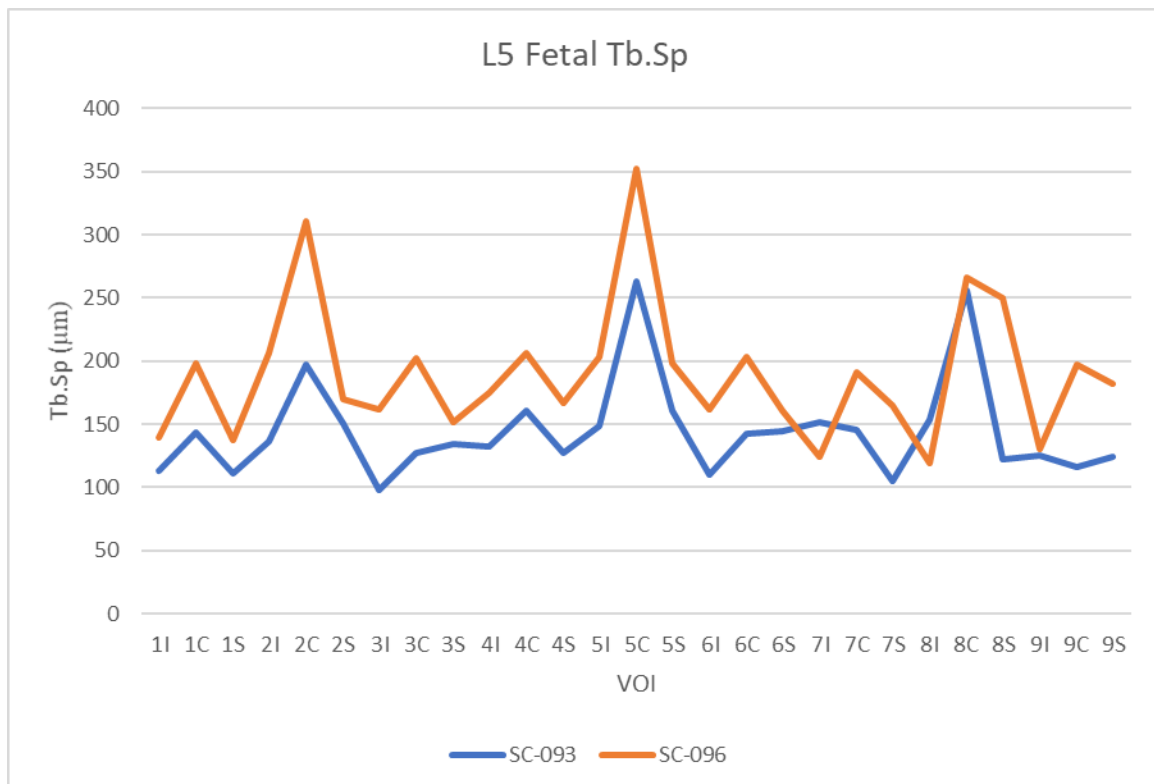
The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-096 vs SC-093	459.000	5.615	<0.001	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.



One Way Analysis of Variance

Data source: DA in L5 Between Fetal Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.616)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.975)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-093	27	0	0.398	0.0924	0.0178
SC-096	27	0	0.347	0.0877	0.0169

Source of Variation	DF	SS	MS	F	P
Between Groups	1	0.0357	0.0357	4.400	0.041
Residual	52	0.422	0.00812		
Total	53	0.458			

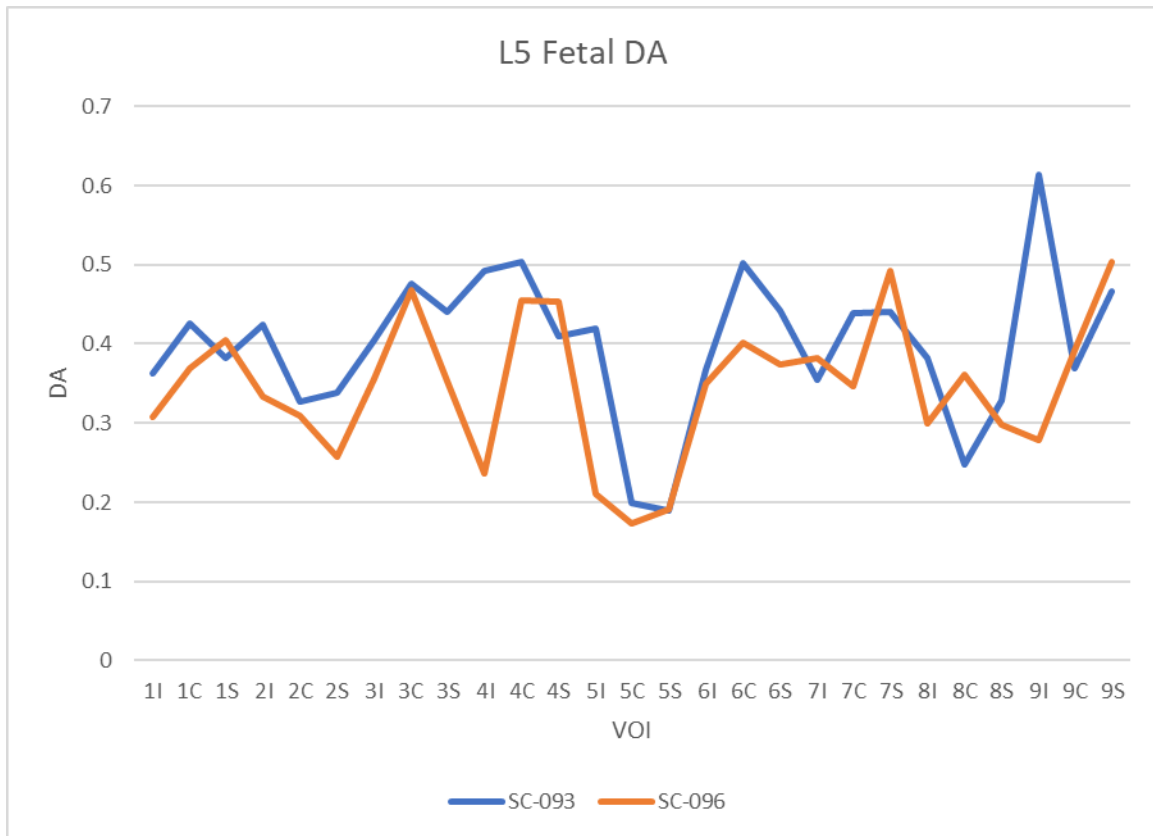
The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.041).

Power of performed test with alpha = 0.050: 0.440

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):
Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
SC-093 vs. SC-096	0.0514	2.098	0.041	Yes



One Way Analysis of Variance

01 December 2018 20:31:23

Data source: BV/TV in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:31:23

Data source: BV/TV in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	31.918	29.619	37.248
SC-084	27	0	47.314	44.911	50.556
SC-086	27	0	43.695	41.075	47.775
SC-087	27	0	34.686	29.255	42.351
SC-088	27	0	45.919	42.591	49.963
SC-092	27	0	35.314	29.545	42.107
SC-097	27	0	27.480	24.844	32.034
SC-154	27	0	29.317	26.926	35.347
SC-155	27	0	24.479	22.275	31.518
SC-158	27	0	27.529	24.757	31.373
SC-161	27	0	32.025	30.259	36.145

H = 182.842 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

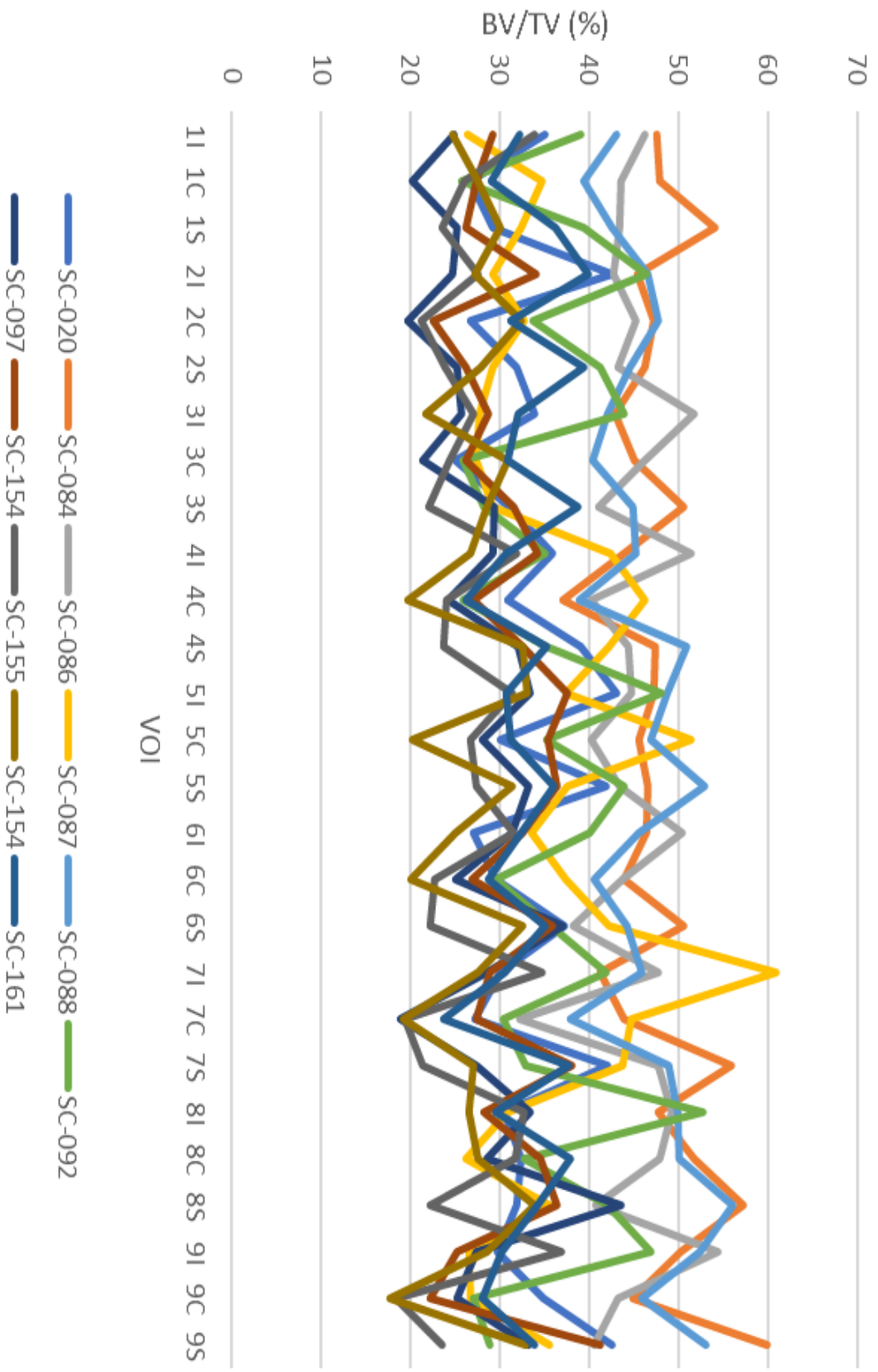
Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-155	5297.000	11.870	<0.001	Yes
SC-084 vs SC-158	4996.000	11.196	<0.001	Yes
SC-084 vs SC-097	4852.000	10.873	<0.001	Yes
SC-084 vs SC-154	4019.000	9.006	<0.001	Yes
SC-084 vs SC-161	3438.000	7.704	<0.001	Yes
SC-084 vs SC-020	3383.000	7.581	<0.001	Yes
SC-084 vs SC-087	2816.000	6.310	<0.001	Yes
SC-084 vs SC-092	2550.000	5.714	0.001	Yes
SC-084 vs SC-086	596.000	1.336	0.997	No
SC-084 vs SC-088	283.000	0.634	1.000	Do Not Test
SC-088 vs SC-155	5014.000	11.236	<0.001	Yes
SC-088 vs SC-158	4713.000	10.561	<0.001	Yes
SC-088 vs SC-097	4569.000	10.239	<0.001	Yes
SC-088 vs SC-154	3736.000	8.372	<0.001	Yes
SC-088 vs SC-161	3155.000	7.070	<0.001	Yes
SC-088 vs SC-020	3100.000	6.947	<0.001	Yes
SC-088 vs SC-087	2533.000	5.676	0.002	Yes
SC-088 vs SC-092	2267.000	5.080	0.013	Yes

SC-088 vs SC-086	313.000	0.701	1.000	Do Not Test
SC-086 vs SC-155	4701.000	10.534	<0.001	Yes
SC-086 vs SC-158	4400.000	9.860	<0.001	Yes
SC-086 vs SC-097	4256.000	9.537	<0.001	Yes
SC-086 vs SC-154	3423.000	7.671	<0.001	Yes
SC-086 vs SC-161	2842.000	6.369	<0.001	Yes
SC-086 vs SC-020	2787.000	6.245	<0.001	Yes
SC-086 vs SC-087	2220.000	4.975	0.018	Yes
SC-086 vs SC-092	1954.000	4.379	0.071	No
SC-092 vs SC-155	2747.000	6.156	<0.001	Yes
SC-092 vs SC-158	2446.000	5.481	0.004	Yes
SC-092 vs SC-097	2302.000	5.159	0.011	Yes
SC-092 vs SC-154	1469.000	3.292	0.413	No
SC-092 vs SC-161	888.000	1.990	0.948	Do Not Test
SC-092 vs SC-020	833.000	1.867	0.967	Do Not Test
SC-092 vs SC-087	266.000	0.596	1.000	Do Not Test
SC-087 vs SC-155	2481.000	5.560	0.003	Yes
SC-087 vs SC-158	2180.000	4.885	0.022	Yes
SC-087 vs SC-097	2036.000	4.562	0.048	Yes
SC-087 vs SC-154	1203.000	2.696	0.711	Do Not Test
SC-087 vs SC-161	622.000	1.394	0.996	Do Not Test
SC-087 vs SC-020	567.000	1.271	0.998	Do Not Test
SC-020 vs SC-155	1914.000	4.289	0.085	No
SC-020 vs SC-158	1613.000	3.615	0.271	Do Not Test
SC-020 vs SC-097	1469.000	3.292	0.413	Do Not Test
SC-020 vs SC-154	636.000	1.425	0.996	Do Not Test
SC-020 vs SC-161	55.000	0.123	1.000	Do Not Test
SC-161 vs SC-155	1859.000	4.166	0.108	Do Not Test
SC-161 vs SC-158	1558.000	3.491	0.322	Do Not Test
SC-161 vs SC-097	1414.000	3.169	0.474	Do Not Test
SC-161 vs SC-154	581.000	1.302	0.998	Do Not Test
SC-154 vs SC-155	1278.000	2.864	0.629	Do Not Test
SC-154 vs SC-158	977.000	2.189	0.904	Do Not Test
SC-154 vs SC-097	833.000	1.867	0.967	Do Not Test
SC-097 vs SC-155	445.000	0.997	1.000	Do Not Test
SC-097 vs SC-158	144.000	0.323	1.000	Do Not Test
SC-158 vs SC-155	301.000	0.675	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal BV/TV



One Way Analysis of Variance

01 December 2018 20:32:06

Data source: SMI in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:32:06

Data source: SMI in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	1.007	0.783	1.345
SC-084	27	0	0.0788	-0.280	0.181
SC-086	27	0	0.305	0.0844	0.536
SC-087	27	0	1.363	1.010	1.523
SC-088	27	0	0.116	-0.334	0.337
SC-092	27	0	0.667	0.184	1.123
SC-097	27	0	1.437	1.044	1.595
SC-154	27	0	1.278	0.911	1.482
SC-155	27	0	1.449	1.158	1.723
SC-158	27	0	1.342	1.081	1.579
SC-161	27	0	1.020	0.778	1.254

H = 173.771 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

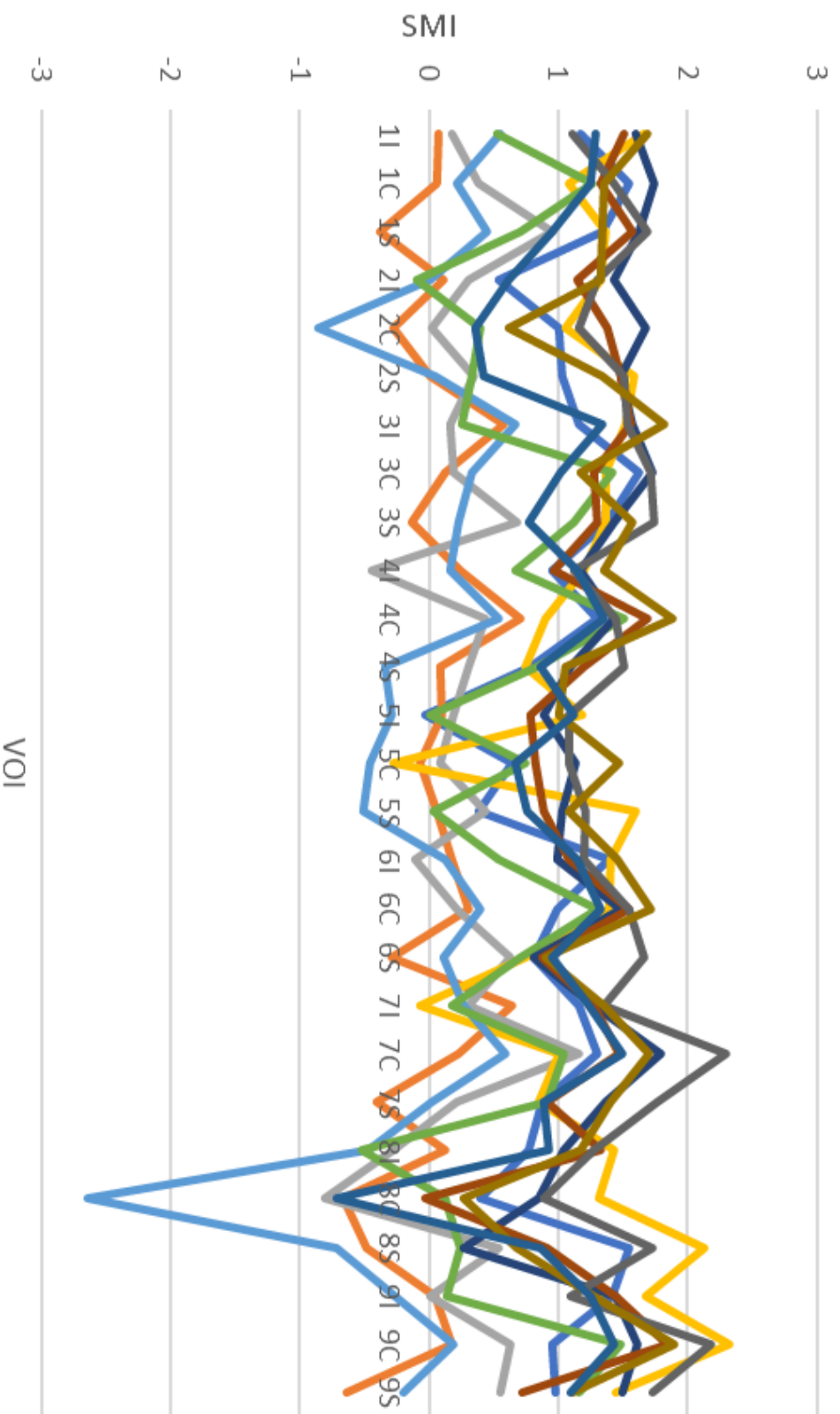
Comparison	Diff of Ranks	q	P	P<0.050
SC-155 vs SC-084	5017.000	11.243	<0.001	Yes
SC-155 vs SC-088	4940.000	11.070	<0.001	Yes
SC-155 vs SC-086	4305.000	9.647	<0.001	Yes
SC-155 vs SC-092	3126.000	7.005	<0.001	Yes
SC-155 vs SC-161	2032.000	4.554	0.049	Yes
SC-155 vs SC-020	1789.000	4.009	0.144	No
SC-155 vs SC-154	1019.000	2.283	0.876	Do Not Test
SC-155 vs SC-087	871.000	1.952	0.955	Do Not Test
SC-155 vs SC-158	600.000	1.345	0.997	Do Not Test
SC-155 vs SC-097	435.000	0.975	1.000	Do Not Test
SC-097 vs SC-084	4582.000	10.268	<0.001	Yes
SC-097 vs SC-088	4505.000	10.095	<0.001	Yes
SC-097 vs SC-086	3870.000	8.672	<0.001	Yes
SC-097 vs SC-092	2691.000	6.030	<0.001	Yes
SC-097 vs SC-161	1597.000	3.579	0.285	No
SC-097 vs SC-020	1354.000	3.034	0.542	Do Not Test
SC-097 vs SC-154	584.000	1.309	0.998	Do Not Test
SC-097 vs SC-087	436.000	0.977	1.000	Do Not Test

SC-097 vs SC-158	165.000	0.370	1.000	Do Not Test
SC-158 vs SC-084	4417.000	9.898	<0.001	Yes
SC-158 vs SC-088	4340.000	9.726	<0.001	Yes
SC-158 vs SC-086	3705.000	8.303	<0.001	Yes
SC-158 vs SC-092	2526.000	5.661	0.002	Yes
SC-158 vs SC-161	1432.000	3.209	0.454	Do Not Test
SC-158 vs SC-020	1189.000	2.664	0.725	Do Not Test
SC-158 vs SC-154	419.000	0.939	1.000	Do Not Test
SC-158 vs SC-087	271.000	0.607	1.000	Do Not Test
SC-087 vs SC-084	4146.000	9.291	<0.001	Yes
SC-087 vs SC-088	4069.000	9.118	<0.001	Yes
SC-087 vs SC-086	3434.000	7.695	<0.001	Yes
SC-087 vs SC-092	2255.000	5.053	0.014	Yes
SC-087 vs SC-161	1161.000	2.602	0.754	Do Not Test
SC-087 vs SC-020	918.000	2.057	0.935	Do Not Test
SC-087 vs SC-154	148.000	0.332	1.000	Do Not Test
SC-154 vs SC-084	3998.000	8.959	<0.001	Yes
SC-154 vs SC-088	3921.000	8.787	<0.001	Yes
SC-154 vs SC-086	3286.000	7.364	<0.001	Yes
SC-154 vs SC-092	2107.000	4.722	0.033	Yes
SC-154 vs SC-161	1013.000	2.270	0.880	Do Not Test
SC-154 vs SC-020	770.000	1.725	0.981	Do Not Test
SC-020 vs SC-084	3228.000	7.234	<0.001	Yes
SC-020 vs SC-088	3151.000	7.061	<0.001	Yes
SC-020 vs SC-086	2516.000	5.638	0.002	Yes
SC-020 vs SC-092	1337.000	2.996	0.562	No
SC-020 vs SC-161	243.000	0.545	1.000	Do Not Test
SC-161 vs SC-084	2985.000	6.689	<0.001	Yes
SC-161 vs SC-088	2908.000	6.517	<0.001	Yes
SC-161 vs SC-086	2273.000	5.094	0.013	Yes
SC-161 vs SC-092	1094.000	2.452	0.816	Do Not Test
SC-092 vs SC-084	1891.000	4.238	0.094	No
SC-092 vs SC-088	1814.000	4.065	0.130	Do Not Test
SC-092 vs SC-086	1179.000	2.642	0.735	Do Not Test
SC-086 vs SC-084	712.000	1.596	0.990	Do Not Test
SC-086 vs SC-088	635.000	1.423	0.996	Do Not Test
SC-088 vs SC-084	77.000	0.173	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal SMI



One Way Analysis of Variance

01 December 2018 20:32:44

Data source: Tb.Th in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:32:44

Data source: Tb.Th in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	122.967	112.720	136.436
SC-084	27	0	131.435	122.831	146.175
SC-086	27	0	123.887	117.154	137.213
SC-087	27	0	149.049	125.099	171.970
SC-088	27	0	132.396	123.533	139.155
SC-092	27	0	118.066	107.342	131.633
SC-097	27	0	109.128	99.288	120.378
SC-154	27	0	120.471	109.657	136.346
SC-155	27	0	110.219	100.180	122.683
SC-158	27	0	118.733	114.454	133.524
SC-161	27	0	123.265	117.550	131.994

H = 70.793 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

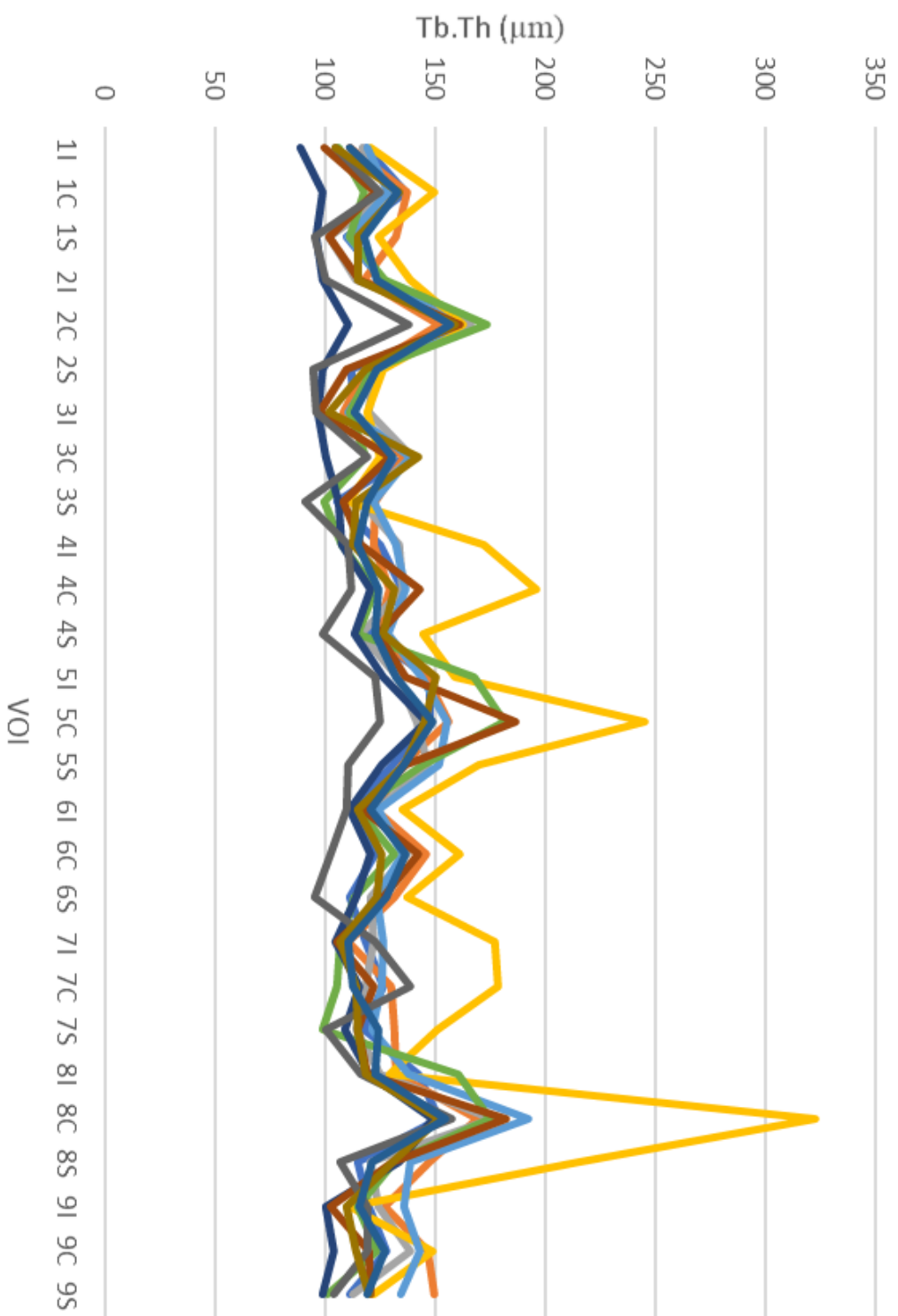
Comparison	Diff of Ranks	q	P	P<0.050
SC-087 vs SC-097	3963.000	8.881	<0.001	Yes
SC-087 vs SC-155	3824.000	8.569	<0.001	Yes
SC-087 vs SC-092	2500.000	5.602	0.002	Yes
SC-087 vs SC-154	2308.000	5.172	0.010	Yes
SC-087 vs SC-158	2301.000	5.156	0.011	Yes
SC-087 vs SC-020	1995.000	4.471	0.058	No
SC-087 vs SC-161	1893.000	4.242	0.093	Do Not Test
SC-087 vs SC-086	1675.000	3.754	0.220	Do Not Test
SC-087 vs SC-084	988.000	2.214	0.897	Do Not Test
SC-087 vs SC-088	839.000	1.880	0.965	Do Not Test
SC-088 vs SC-097	3124.000	7.001	<0.001	Yes
SC-088 vs SC-155	2985.000	6.689	<0.001	Yes
SC-088 vs SC-092	1661.000	3.722	0.231	No
SC-088 vs SC-154	1469.000	3.292	0.413	Do Not Test
SC-088 vs SC-158	1462.000	3.276	0.421	Do Not Test
SC-088 vs SC-020	1156.000	2.590	0.759	Do Not Test
SC-088 vs SC-161	1054.000	2.362	0.850	Do Not Test
SC-088 vs SC-086	836.000	1.873	0.966	Do Not Test

SC-088 vs SC-084	149.000	0.334	1.000	Do Not Test
SC-084 vs SC-097	2975.000	6.667	<0.001	Yes
SC-084 vs SC-155	2836.000	6.355	<0.001	Yes
SC-084 vs SC-092	1512.000	3.388	0.368	Do Not Test
SC-084 vs SC-154	1320.000	2.958	0.581	Do Not Test
SC-084 vs SC-158	1313.000	2.942	0.589	Do Not Test
SC-084 vs SC-020	1007.000	2.257	0.884	Do Not Test
SC-084 vs SC-161	905.000	2.028	0.941	Do Not Test
SC-084 vs SC-086	687.000	1.539	0.992	Do Not Test
SC-086 vs SC-097	2288.000	5.127	0.012	Yes
SC-086 vs SC-155	2149.000	4.816	0.026	Yes
SC-086 vs SC-092	825.000	1.849	0.969	Do Not Test
SC-086 vs SC-154	633.000	1.418	0.996	Do Not Test
SC-086 vs SC-158	626.000	1.403	0.996	Do Not Test
SC-086 vs SC-020	320.000	0.717	1.000	Do Not Test
SC-086 vs SC-161	218.000	0.489	1.000	Do Not Test
SC-161 vs SC-097	2070.000	4.639	0.040	Yes
SC-161 vs SC-155	1931.000	4.327	0.079	No
SC-161 vs SC-092	607.000	1.360	0.997	Do Not Test
SC-161 vs SC-154	415.000	0.930	1.000	Do Not Test
SC-161 vs SC-158	408.000	0.914	1.000	Do Not Test
SC-161 vs SC-020	102.000	0.229	1.000	Do Not Test
SC-020 vs SC-097	1968.000	4.410	0.066	No
SC-020 vs SC-155	1829.000	4.099	0.122	Do Not Test
SC-020 vs SC-092	505.000	1.132	0.999	Do Not Test
SC-020 vs SC-154	313.000	0.701	1.000	Do Not Test
SC-020 vs SC-158	306.000	0.686	1.000	Do Not Test
SC-158 vs SC-097	1662.000	3.724	0.230	Do Not Test
SC-158 vs SC-155	1523.000	3.413	0.357	Do Not Test
SC-158 vs SC-092	199.000	0.446	1.000	Do Not Test
SC-158 vs SC-154	7.000	0.0157	1.000	Do Not Test
SC-154 vs SC-097	1655.000	3.709	0.236	Do Not Test
SC-154 vs SC-155	1516.000	3.397	0.364	Do Not Test
SC-154 vs SC-092	192.000	0.430	1.000	Do Not Test
SC-092 vs SC-097	1463.000	3.278	0.420	Do Not Test
SC-092 vs SC-155	1324.000	2.967	0.577	Do Not Test
SC-155 vs SC-097	139.000	0.311	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal Tb.Th



- SC-020
- SC-084
- SC-086
- SC-087
- SC-088
- SC-092
- SC-097
- SC-154
- SC-155
- SC-154
- SC-161

One Way Analysis of Variance

01 December 2018 20:33:43

Data source: Tb.N in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:33:43

Data source: Tb.N in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.00272	0.00216	0.00302
SC-084	27	0	0.00372	0.00324	0.00396
SC-086	27	0	0.00352	0.00311	0.00394
SC-087	27	0	0.00236	0.00219	0.00261
SC-088	27	0	0.00361	0.00302	0.00379
SC-092	27	0	0.00307	0.00219	0.00350
SC-097	27	0	0.00264	0.00209	0.00279
SC-154	27	0	0.00263	0.00203	0.00291
SC-155	27	0	0.00239	0.00209	0.00280
SC-158	27	0	0.00231	0.00203	0.00257
SC-161	27	0	0.00268	0.00221	0.00288

H = 149.586 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

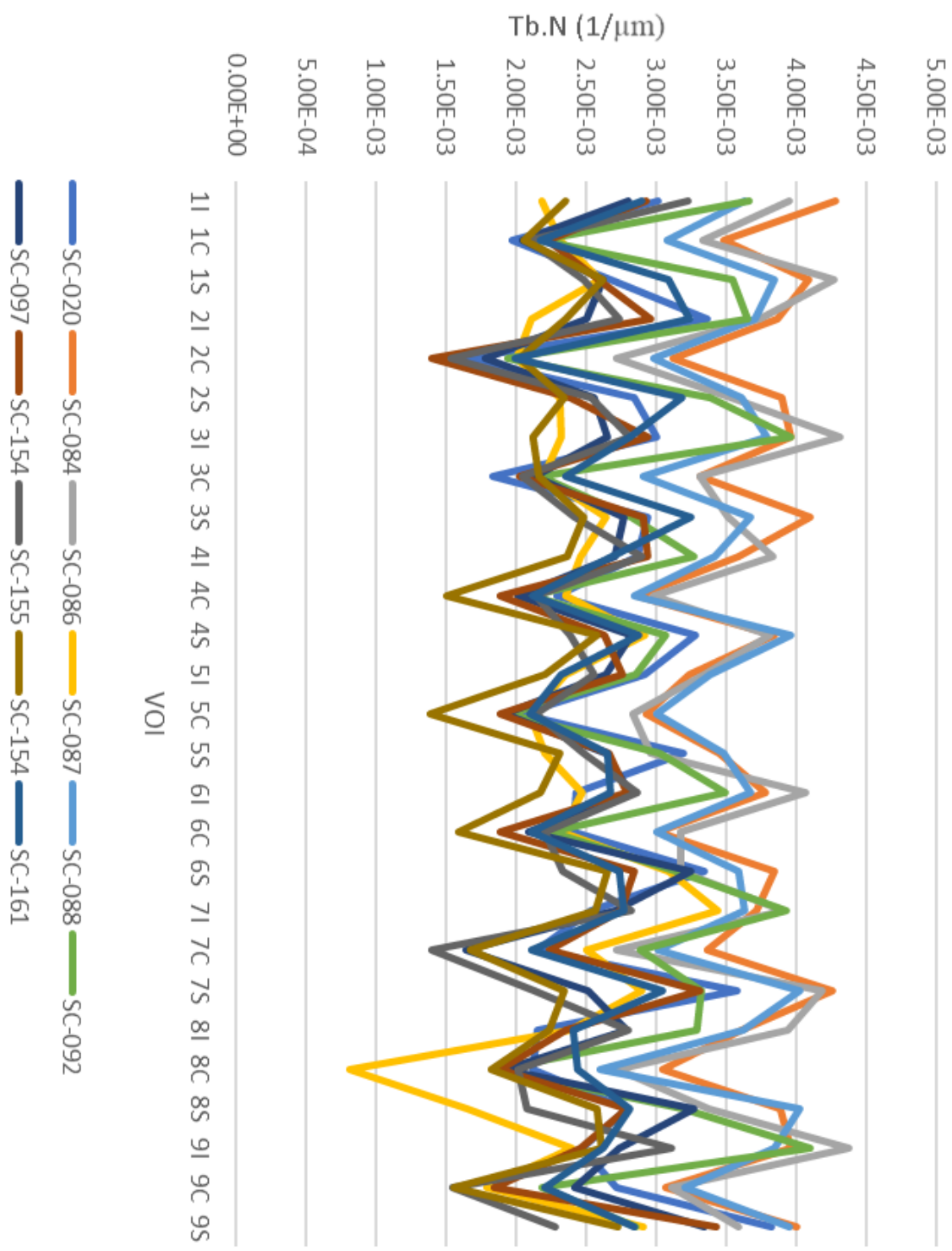
Comparison	Diff of Ranks	q	P	P<0.050
SC-084 vs SC-158	4830.000	10.824	<0.001	Yes
SC-084 vs SC-087	4183.000	9.374	<0.001	Yes
SC-084 vs SC-155	4173.500	9.352	<0.001	Yes
SC-084 vs SC-097	3698.000	8.287	<0.001	Yes
SC-084 vs SC-154	3643.500	8.165	<0.001	Yes
SC-084 vs SC-161	3331.500	7.466	<0.001	Yes
SC-084 vs SC-020	3063.500	6.865	<0.001	Yes
SC-084 vs SC-092	2098.500	4.703	0.035	Yes
SC-084 vs SC-086	381.500	0.855	1.000	No
SC-084 vs SC-088	368.500	0.826	1.000	Do Not Test
SC-088 vs SC-158	4461.500	9.998	<0.001	Yes
SC-088 vs SC-087	3814.500	8.548	<0.001	Yes
SC-088 vs SC-155	3805.000	8.527	<0.001	Yes
SC-088 vs SC-097	3329.500	7.461	<0.001	Yes
SC-088 vs SC-154	3275.000	7.339	<0.001	Yes
SC-088 vs SC-161	2963.000	6.640	<0.001	Yes
SC-088 vs SC-020	2695.000	6.039	<0.001	Yes
SC-088 vs SC-092	1730.000	3.877	0.180	No

SC-088 vs SC-086	13.000	0.0291	1.000	Do Not Test
SC-086 vs SC-158	4448.500	9.969	<0.001	Yes
SC-086 vs SC-087	3801.500	8.519	<0.001	Yes
SC-086 vs SC-155	3792.000	8.497	<0.001	Yes
SC-086 vs SC-097	3316.500	7.432	<0.001	Yes
SC-086 vs SC-154	3262.000	7.310	<0.001	Yes
SC-086 vs SC-161	2950.000	6.611	<0.001	Yes
SC-086 vs SC-020	2682.000	6.010	<0.001	Yes
SC-086 vs SC-092	1717.000	3.848	0.189	Do Not Test
SC-092 vs SC-158	2731.500	6.121	<0.001	Yes
SC-092 vs SC-087	2084.500	4.671	0.037	Yes
SC-092 vs SC-155	2075.000	4.650	0.039	Yes
SC-092 vs SC-097	1599.500	3.584	0.283	No
SC-092 vs SC-154	1545.000	3.462	0.335	Do Not Test
SC-092 vs SC-161	1233.000	2.763	0.678	Do Not Test
SC-092 vs SC-020	965.000	2.162	0.911	Do Not Test
SC-020 vs SC-158	1766.500	3.959	0.157	No
SC-020 vs SC-087	1119.500	2.509	0.793	Do Not Test
SC-020 vs SC-155	1110.000	2.487	0.802	Do Not Test
SC-020 vs SC-097	634.500	1.422	0.996	Do Not Test
SC-020 vs SC-154	580.000	1.300	0.998	Do Not Test
SC-020 vs SC-161	268.000	0.601	1.000	Do Not Test
SC-161 vs SC-158	1498.500	3.358	0.382	Do Not Test
SC-161 vs SC-087	851.500	1.908	0.961	Do Not Test
SC-161 vs SC-155	842.000	1.887	0.964	Do Not Test
SC-161 vs SC-097	366.500	0.821	1.000	Do Not Test
SC-161 vs SC-154	312.000	0.699	1.000	Do Not Test
SC-154 vs SC-158	1186.500	2.659	0.728	Do Not Test
SC-154 vs SC-087	539.500	1.209	0.999	Do Not Test
SC-154 vs SC-155	530.000	1.188	0.999	Do Not Test
SC-154 vs SC-097	54.500	0.122	1.000	Do Not Test
SC-097 vs SC-158	1132.000	2.537	0.782	Do Not Test
SC-097 vs SC-087	485.000	1.087	1.000	Do Not Test
SC-097 vs SC-155	475.500	1.066	1.000	Do Not Test
SC-155 vs SC-158	656.500	1.471	0.994	Do Not Test
SC-155 vs SC-087	9.500	0.0213	1.000	Do Not Test
SC-087 vs SC-158	647.000	1.450	0.995	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal Tb.N



One Way Analysis of Variance

01 December 2018 20:34:27

Data source: Tb.Sp in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:34:27

Data source: Tb.Sp in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	228.466	189.202	268.270
SC-084	27	0	169.533	160.247	201.122
SC-086	27	0	179.438	159.468	200.947
SC-087	27	0	226.115	215.454	254.063
SC-088	27	0	181.280	172.875	203.435
SC-092	27	0	211.496	187.080	237.965
SC-097	27	0	226.399	210.332	253.675
SC-154	27	0	230.825	209.822	269.462
SC-155	27	0	222.296	196.773	255.275
SC-158	27	0	264.491	238.071	311.634
SC-161	27	0	231.007	203.069	282.191

H = 100.885 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

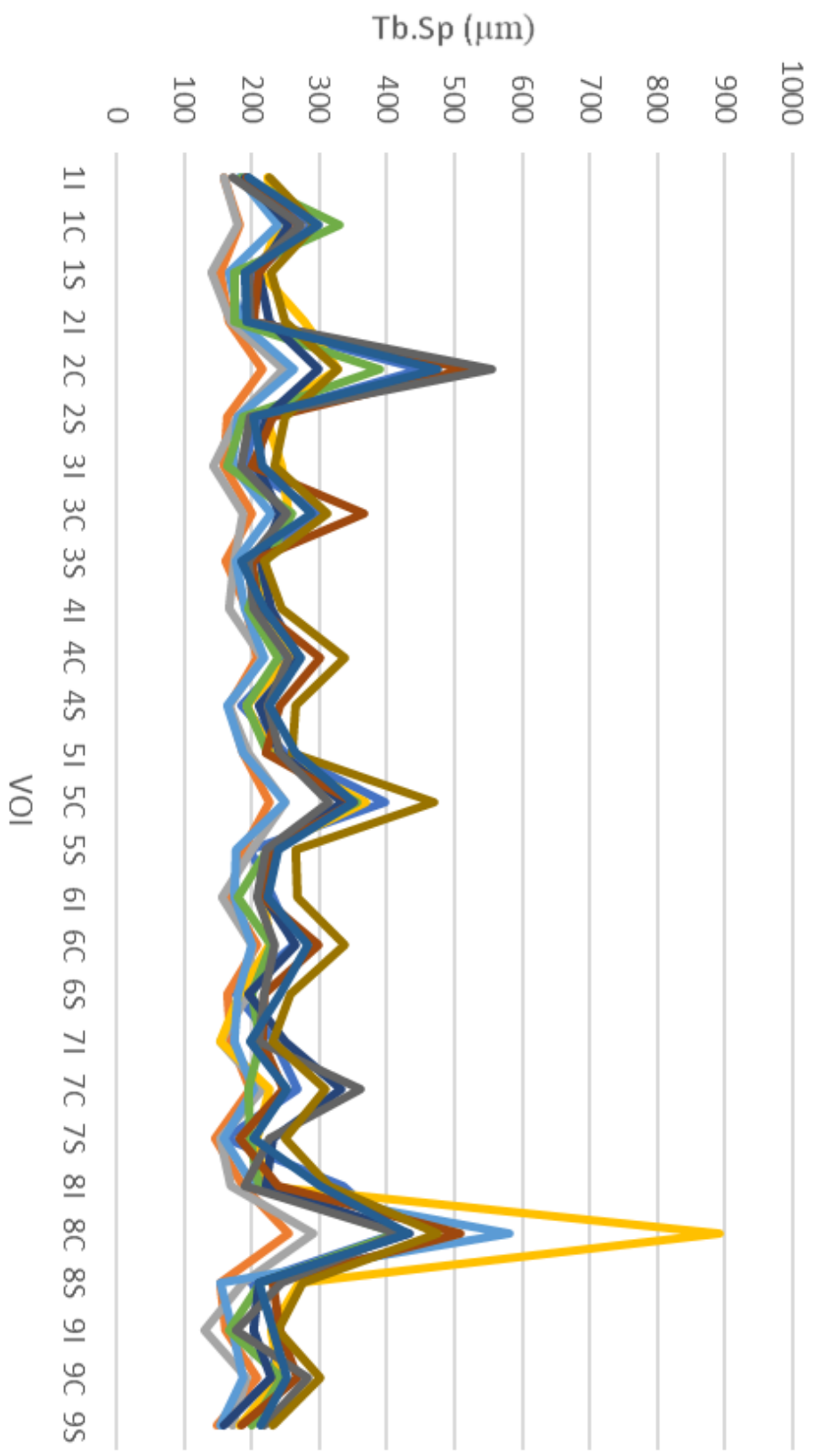
Comparison	Diff of Ranks	q	P	P<0.050
SC-158 vs SC-084	4535.000	10.162	<0.001	Yes
SC-158 vs SC-086	4323.000	9.687	<0.001	Yes
SC-158 vs SC-088	3873.000	8.679	<0.001	Yes
SC-158 vs SC-092	2549.000	5.712	0.001	Yes
SC-158 vs SC-020	1940.000	4.347	0.075	No
SC-158 vs SC-155	1815.000	4.067	0.129	Do Not Test
SC-158 vs SC-087	1617.000	3.624	0.268	Do Not Test
SC-158 vs SC-097	1537.000	3.444	0.343	Do Not Test
SC-158 vs SC-154	1364.000	3.057	0.531	Do Not Test
SC-158 vs SC-161	1351.000	3.027	0.546	Do Not Test
SC-161 vs SC-084	3184.000	7.135	<0.001	Yes
SC-161 vs SC-086	2972.000	6.660	<0.001	Yes
SC-161 vs SC-088	2522.000	5.652	0.002	Yes
SC-161 vs SC-092	1198.000	2.685	0.716	No
SC-161 vs SC-020	589.000	1.320	0.998	Do Not Test
SC-161 vs SC-155	464.000	1.040	1.000	Do Not Test
SC-161 vs SC-087	266.000	0.596	1.000	Do Not Test
SC-161 vs SC-097	186.000	0.417	1.000	Do Not Test

SC-161 vs SC-154	13.000	0.0291	1.000	Do Not Test
SC-154 vs SC-084	3171.000	7.106	<0.001	Yes
SC-154 vs SC-086	2959.000	6.631	<0.001	Yes
SC-154 vs SC-088	2509.000	5.622	0.002	Yes
SC-154 vs SC-092	1185.000	2.655	0.729	Do Not Test
SC-154 vs SC-020	576.000	1.291	0.998	Do Not Test
SC-154 vs SC-155	451.000	1.011	1.000	Do Not Test
SC-154 vs SC-087	253.000	0.567	1.000	Do Not Test
SC-154 vs SC-097	173.000	0.388	1.000	Do Not Test
SC-097 vs SC-084	2998.000	6.718	<0.001	Yes
SC-097 vs SC-086	2786.000	6.243	<0.001	Yes
SC-097 vs SC-088	2336.000	5.235	0.009	Yes
SC-097 vs SC-092	1012.000	2.268	0.881	Do Not Test
SC-097 vs SC-020	403.000	0.903	1.000	Do Not Test
SC-097 vs SC-155	278.000	0.623	1.000	Do Not Test
SC-097 vs SC-087	80.000	0.179	1.000	Do Not Test
SC-087 vs SC-084	2918.000	6.539	<0.001	Yes
SC-087 vs SC-086	2706.000	6.064	<0.001	Yes
SC-087 vs SC-088	2256.000	5.055	0.014	Yes
SC-087 vs SC-092	932.000	2.089	0.929	Do Not Test
SC-087 vs SC-020	323.000	0.724	1.000	Do Not Test
SC-087 vs SC-155	198.000	0.444	1.000	Do Not Test
SC-155 vs SC-084	2720.000	6.095	<0.001	Yes
SC-155 vs SC-086	2508.000	5.620	0.002	Yes
SC-155 vs SC-088	2058.000	4.612	0.043	Yes
SC-155 vs SC-092	734.000	1.645	0.987	Do Not Test
SC-155 vs SC-020	125.000	0.280	1.000	Do Not Test
SC-020 vs SC-084	2595.000	5.815	<0.001	Yes
SC-020 vs SC-086	2383.000	5.340	0.006	Yes
SC-020 vs SC-088	1933.000	4.332	0.078	No
SC-020 vs SC-092	609.000	1.365	0.997	Do Not Test
SC-092 vs SC-084	1986.000	4.450	0.061	No
SC-092 vs SC-086	1774.000	3.975	0.152	Do Not Test
SC-092 vs SC-088	1324.000	2.967	0.577	Do Not Test
SC-088 vs SC-084	662.000	1.483	0.994	Do Not Test
SC-088 vs SC-086	450.000	1.008	1.000	Do Not Test
SC-086 vs SC-084	212.000	0.475	1.000	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal Tb.Sp



- SC-020
- SC-084
- SC-086
- SC-087
- SC-088
- SC-092
- SC-097
- SC-154
- SC-155
- SC-154
- SC-161

One Way Analysis of Variance

01 December 2018 20:35:02

Data source: DA in L5 Between Perinatal Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:35:02

Data source: DA in L5 Between Perinatal Ind Only

Group	N	Missing	Median	25%	75%
SC-020	27	0	0.548	0.453	0.669
SC-084	27	0	0.344	0.285	0.399
SC-086	27	0	0.424	0.372	0.510
SC-087	27	0	0.377	0.305	0.546
SC-088	27	0	0.521	0.378	0.624
SC-092	27	0	0.476	0.427	0.498
SC-097	27	0	0.464	0.324	0.589
SC-154	27	0	0.465	0.403	0.572
SC-155	27	0	0.410	0.367	0.450
SC-158	27	0	0.548	0.507	0.670
SC-161	27	0	0.412	0.310	0.452

H = 81.819 with 10 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

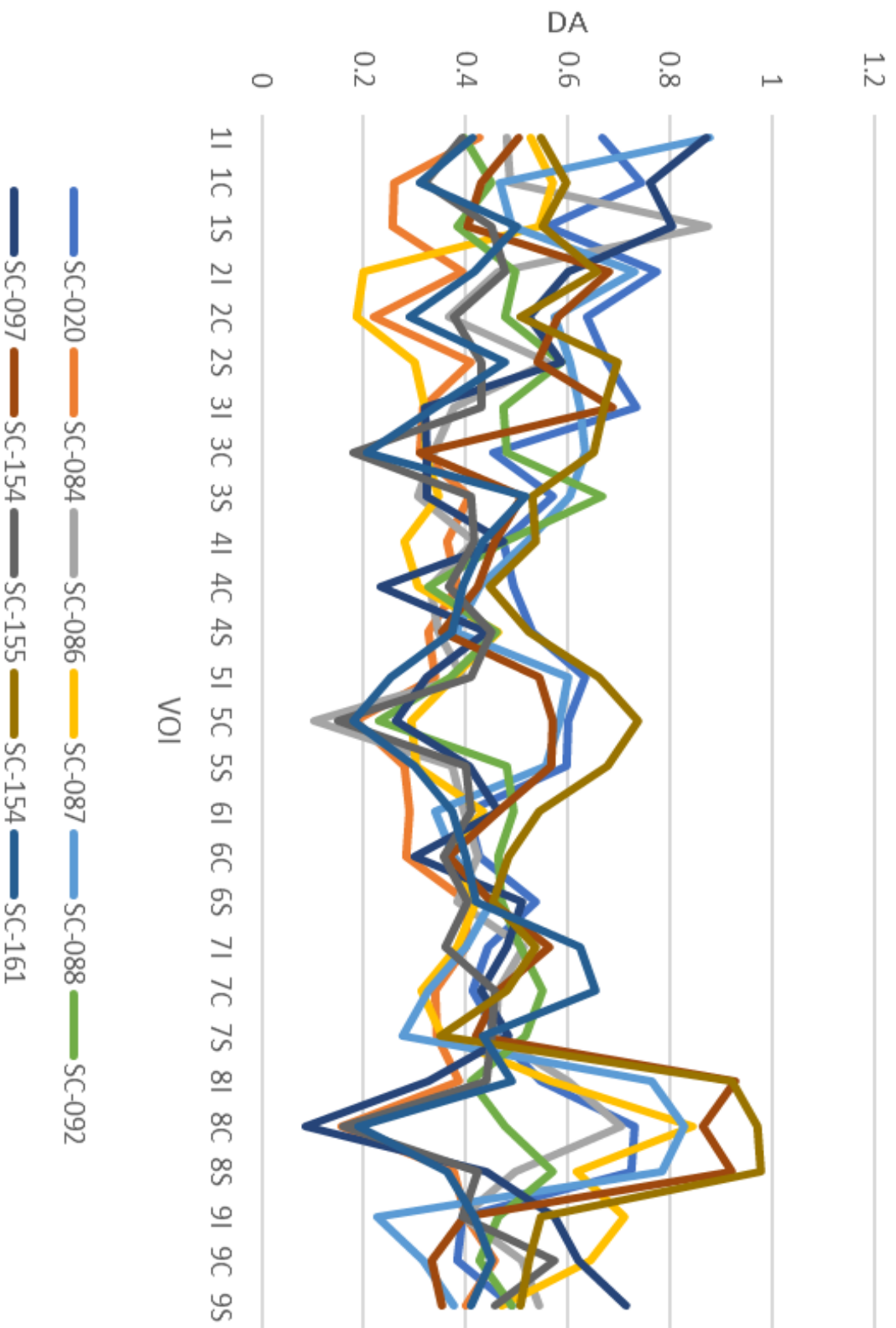
Comparison	Diff of Ranks	q	P	P<0.050
SC-158 vs SC-084	4339.000	9.723	<0.001	Yes
SC-158 vs SC-155	3176.000	7.117	<0.001	Yes
SC-158 vs SC-161	3173.000	7.110	<0.001	Yes
SC-158 vs SC-087	2889.500	6.475	<0.001	Yes
SC-158 vs SC-086	2327.000	5.215	0.009	Yes
SC-158 vs SC-097	2031.000	4.551	0.049	Yes
SC-158 vs SC-092	1694.000	3.796	0.206	No
SC-158 vs SC-154	1385.000	3.104	0.507	Do Not Test
SC-158 vs SC-088	1328.000	2.976	0.572	Do Not Test
SC-158 vs SC-020	482.500	1.081	1.000	Do Not Test
SC-020 vs SC-084	3856.500	8.642	<0.001	Yes
SC-020 vs SC-155	2693.500	6.036	<0.001	Yes
SC-020 vs SC-161	2690.500	6.029	<0.001	Yes
SC-020 vs SC-087	2407.000	5.394	0.005	Yes
SC-020 vs SC-086	1844.500	4.133	0.115	No
SC-020 vs SC-097	1548.500	3.470	0.331	Do Not Test
SC-020 vs SC-092	1211.500	2.715	0.702	Do Not Test
SC-020 vs SC-154	902.500	2.022	0.942	Do Not Test

SC-020 vs SC-088	845.500	1.895	0.963	Do Not Test
SC-088 vs SC-084	3011.000	6.747	<0.001	Yes
SC-088 vs SC-155	1848.000	4.141	0.113	No
SC-088 vs SC-161	1845.000	4.134	0.114	Do Not Test
SC-088 vs SC-087	1561.500	3.499	0.319	Do Not Test
SC-088 vs SC-086	999.000	2.239	0.890	Do Not Test
SC-088 vs SC-097	703.000	1.575	0.991	Do Not Test
SC-088 vs SC-092	366.000	0.820	1.000	Do Not Test
SC-088 vs SC-154	57.000	0.128	1.000	Do Not Test
SC-154 vs SC-084	2954.000	6.620	<0.001	Yes
SC-154 vs SC-155	1791.000	4.013	0.143	Do Not Test
SC-154 vs SC-161	1788.000	4.007	0.144	Do Not Test
SC-154 vs SC-087	1504.500	3.371	0.376	Do Not Test
SC-154 vs SC-086	942.000	2.111	0.923	Do Not Test
SC-154 vs SC-097	646.000	1.448	0.995	Do Not Test
SC-154 vs SC-092	309.000	0.692	1.000	Do Not Test
SC-092 vs SC-084	2645.000	5.927	<0.001	Yes
SC-092 vs SC-155	1482.000	3.321	0.400	Do Not Test
SC-092 vs SC-161	1479.000	3.314	0.403	Do Not Test
SC-092 vs SC-087	1195.500	2.679	0.718	Do Not Test
SC-092 vs SC-086	633.000	1.418	0.996	Do Not Test
SC-092 vs SC-097	337.000	0.755	1.000	Do Not Test
SC-097 vs SC-084	2308.000	5.172	0.010	Yes
SC-097 vs SC-155	1145.000	2.566	0.769	Do Not Test
SC-097 vs SC-161	1142.000	2.559	0.772	Do Not Test
SC-097 vs SC-087	858.500	1.924	0.959	Do Not Test
SC-097 vs SC-086	296.000	0.663	1.000	Do Not Test
SC-086 vs SC-084	2012.000	4.509	0.054	No
SC-086 vs SC-155	849.000	1.903	0.962	Do Not Test
SC-086 vs SC-161	846.000	1.896	0.963	Do Not Test
SC-086 vs SC-087	562.500	1.261	0.998	Do Not Test
SC-087 vs SC-084	1449.500	3.248	0.435	Do Not Test
SC-087 vs SC-155	286.500	0.642	1.000	Do Not Test
SC-087 vs SC-161	283.500	0.635	1.000	Do Not Test
SC-161 vs SC-084	1166.000	2.613	0.749	Do Not Test
SC-161 vs SC-155	3.000	0.00672	1.000	Do Not Test
SC-155 vs SC-084	1163.000	2.606	0.752	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 Perinatal DA



One Way Analysis of Variance

01 December 2018 20:41:38

Data source: BV/TV in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:41:38

Data source: BV/TV in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	19.903	17.484	27.864
SC-021	27	0	13.927	13.350	14.480
SC-070	27	0	18.245	15.357	20.810
SC-071	27	0	14.448	12.501	15.807
SC-024	27	0	15.665	13.389	17.700

H = 59.514 with 4 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

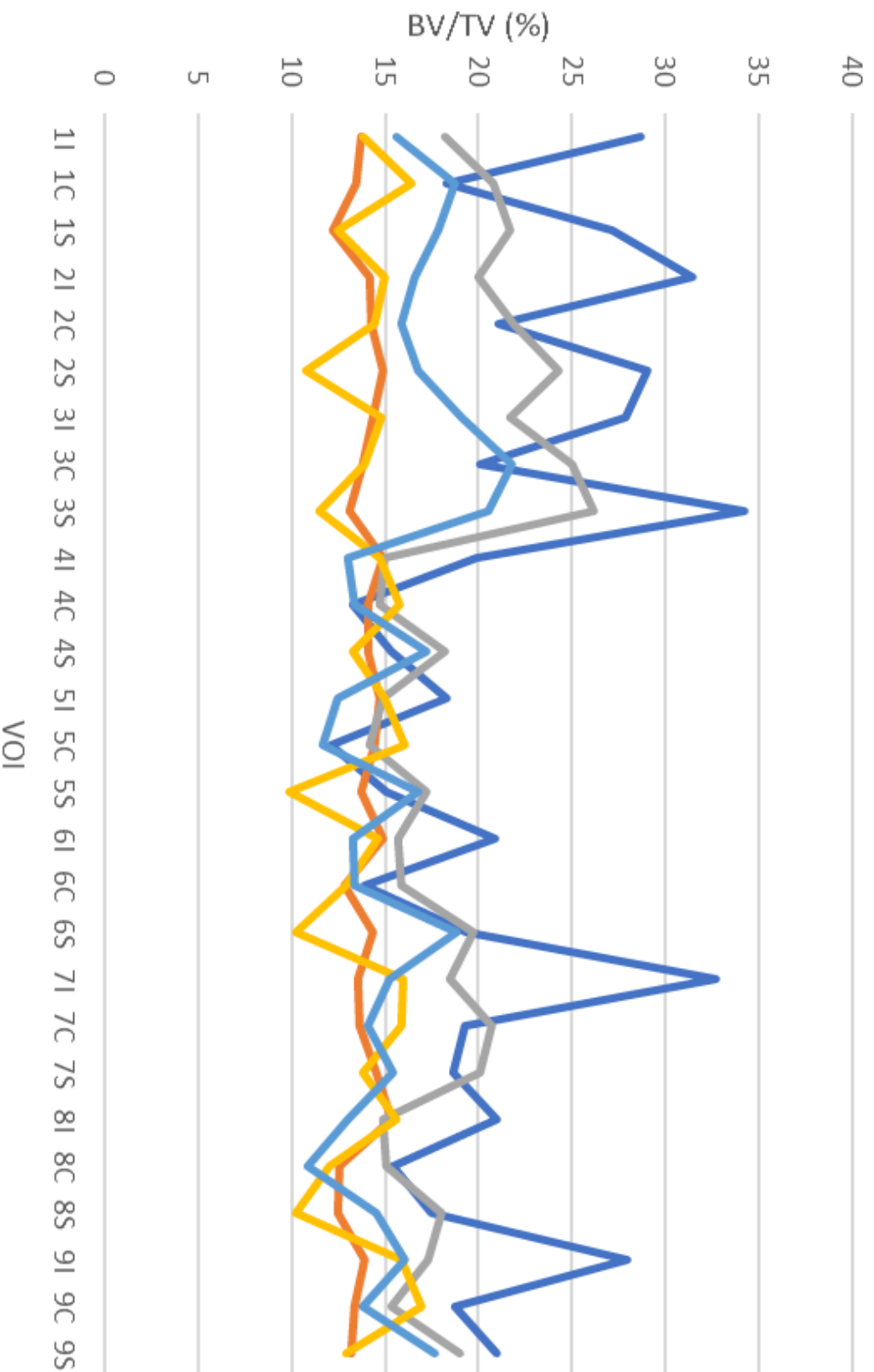
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-021	1732.000	8.522	<0.001	Yes
SC-046 vs SC-071	1553.000	7.641	<0.001	Yes
SC-046 vs SC-024	1014.000	4.989	0.004	Yes
SC-046 vs SC-070	181.000	0.891	0.970	No
SC-070 vs SC-021	1551.000	7.631	<0.001	Yes
SC-070 vs SC-071	1372.000	6.750	<0.001	Yes
SC-070 vs SC-024	833.000	4.098	0.031	Yes
SC-024 vs SC-021	718.000	3.533	0.091	No
SC-024 vs SC-071	539.000	2.652	0.331	Do Not Test
SC-071 vs SC-021	179.000	0.881	0.971	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 4wks-2y BVTV



— SC-046 — SC-021 — SC-070 — SC-071 — SC-024

One Way Analysis of Variance

01 December 2018 20:42:21

Data source: SMI in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:42:21

Data source: SMI in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	1.233	0.929	1.413
SC-021	27	0	1.544	1.494	1.671
SC-070	27	0	1.230	1.086	1.295
SC-071	27	0	1.715	1.626	1.799
SC-024	27	0	1.408	1.319	1.515

H = 87.404 with 4 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

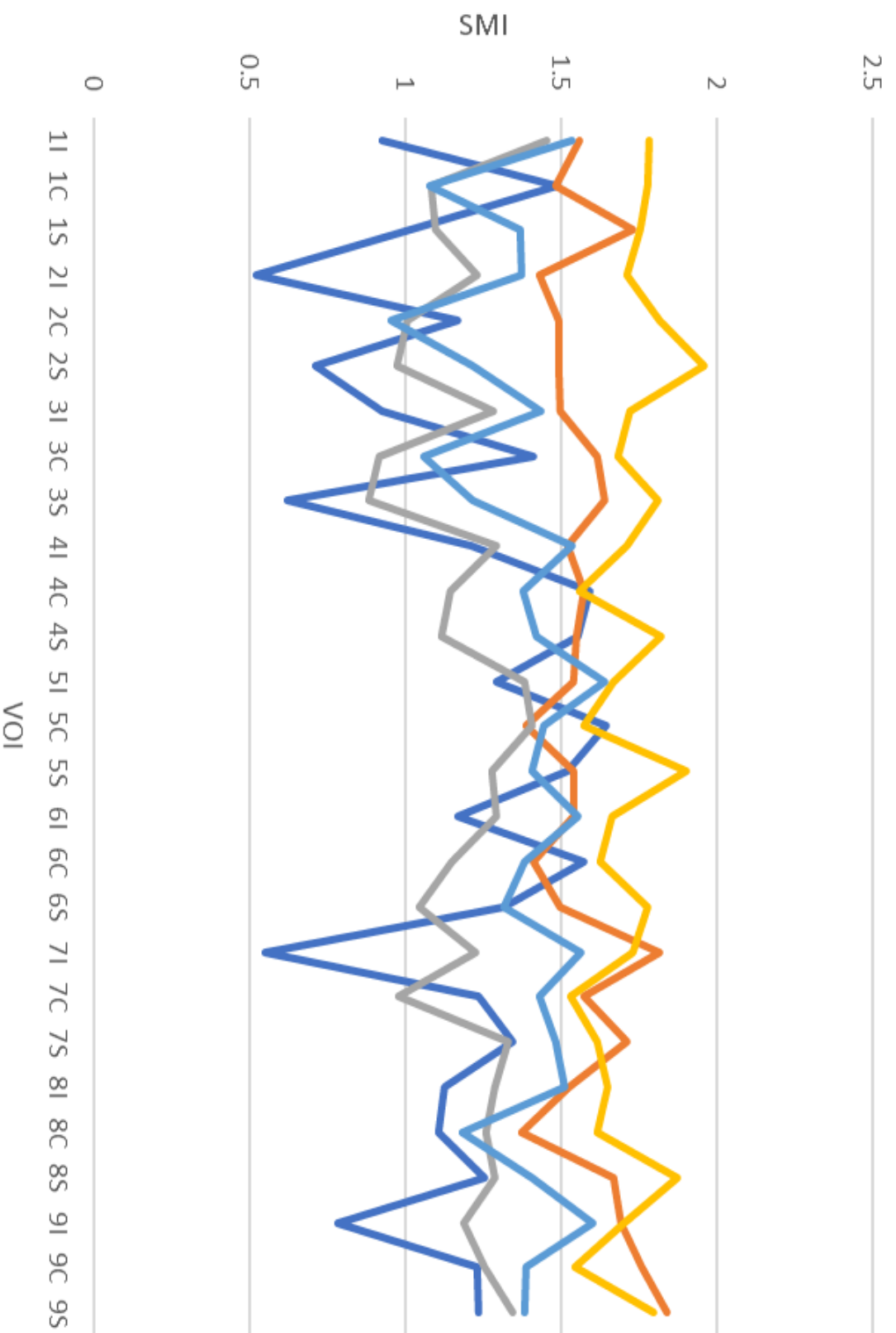
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-071 vs SC-070	2239.000	11.016	<0.001	Yes
SC-071 vs SC-046	2054.000	10.106	<0.001	Yes
SC-071 vs SC-024	1499.000	7.375	<0.001	Yes
SC-071 vs SC-021	643.000	3.164	0.166	No
SC-021 vs SC-070	1596.000	7.852	<0.001	Yes
SC-021 vs SC-046	1411.000	6.942	<0.001	Yes
SC-021 vs SC-024	856.000	4.212	0.024	Yes
SC-024 vs SC-070	740.000	3.641	0.075	No
SC-024 vs SC-046	555.000	2.731	0.301	Do Not Test
SC-046 vs SC-070	185.000	0.910	0.968	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 4wks-2y SMI



SC-046 SC-021 SC-070 SC-071 SC-024

One Way Analysis of Variance

01 December 2018 20:43:04

Data source: Tb.Th in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:43:04

Data source: Tb.Th in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	86.416	79.923	94.671
SC-021	27	0	104.725	99.022	112.749
SC-070	27	0	130.341	122.609	143.064
SC-071	27	0	108.757	100.157	120.185
SC-024	27	0	115.878	110.965	122.966

H = 71.247 with 4 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

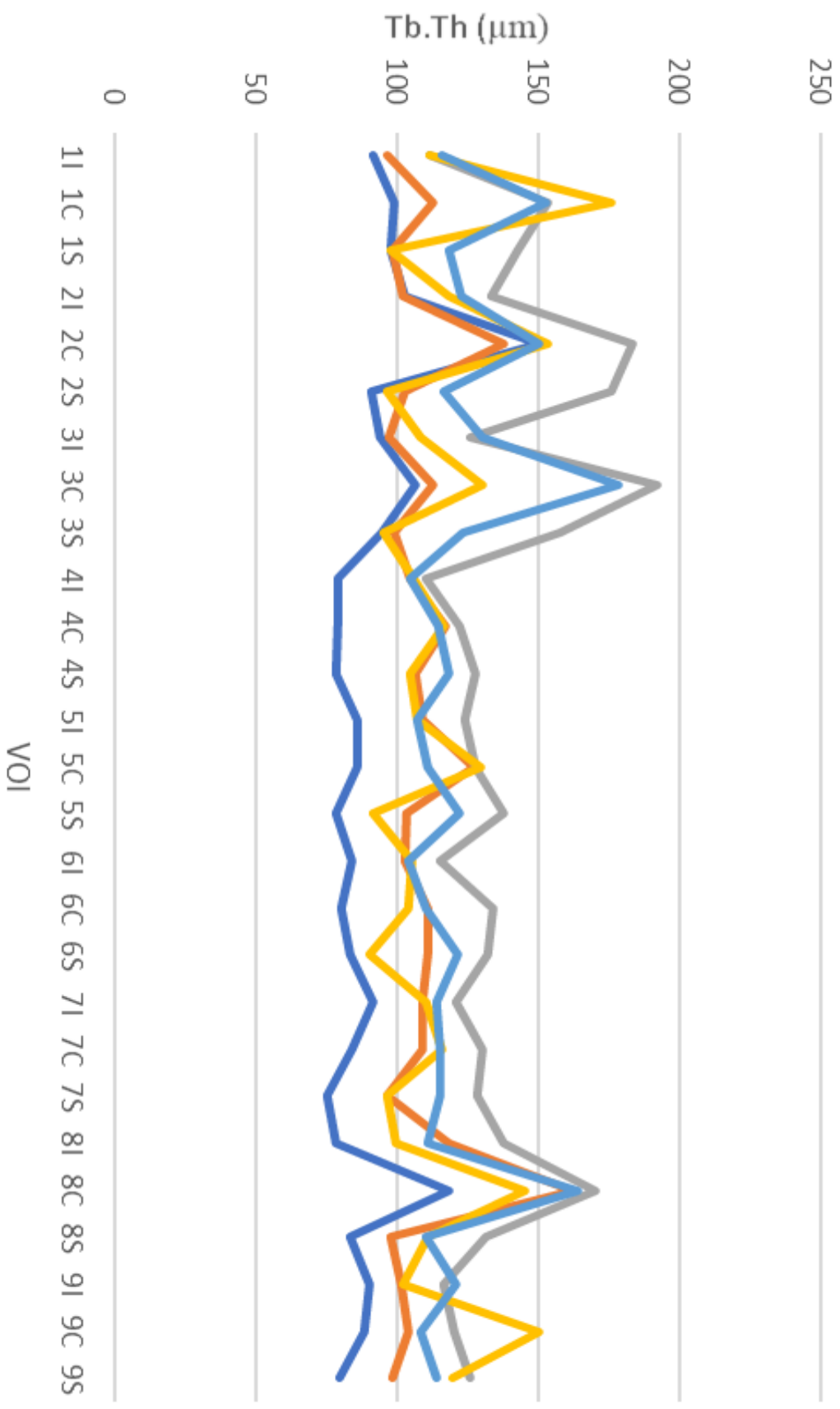
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-070 vs SC-046	2295.000	11.292	<0.001	Yes
SC-070 vs SC-021	1351.000	6.647	<0.001	Yes
SC-070 vs SC-071	1110.000	5.461	0.001	Yes
SC-070 vs SC-024	604.000	2.972	0.219	No
SC-024 vs SC-046	1691.000	8.320	<0.001	Yes
SC-024 vs SC-021	747.000	3.675	0.071	No
SC-024 vs SC-071	506.000	2.490	0.397	Do Not Test
SC-071 vs SC-046	1185.000	5.830	<0.001	Yes
SC-071 vs SC-021	241.000	1.186	0.919	Do Not Test
SC-021 vs SC-046	944.000	4.645	0.009	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 4wks-2y Tb.Th



— SC-046 — SC-021 — SC-070 — SC-071 — SC-024

One Way Analysis of Variance

01 December 2018 20:43:48

Data source: Tb.N in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 20:43:48

Data source: Tb.N in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.00232	0.00189	0.00295
SC-021	27	0	0.00130	0.00122	0.00139
SC-070	27	0	0.00137	0.00120	0.00152
SC-071	27	0	0.00124	0.00109	0.00139
SC-024	27	0	0.00132	0.00121	0.00145

H = 59.611 with 4 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

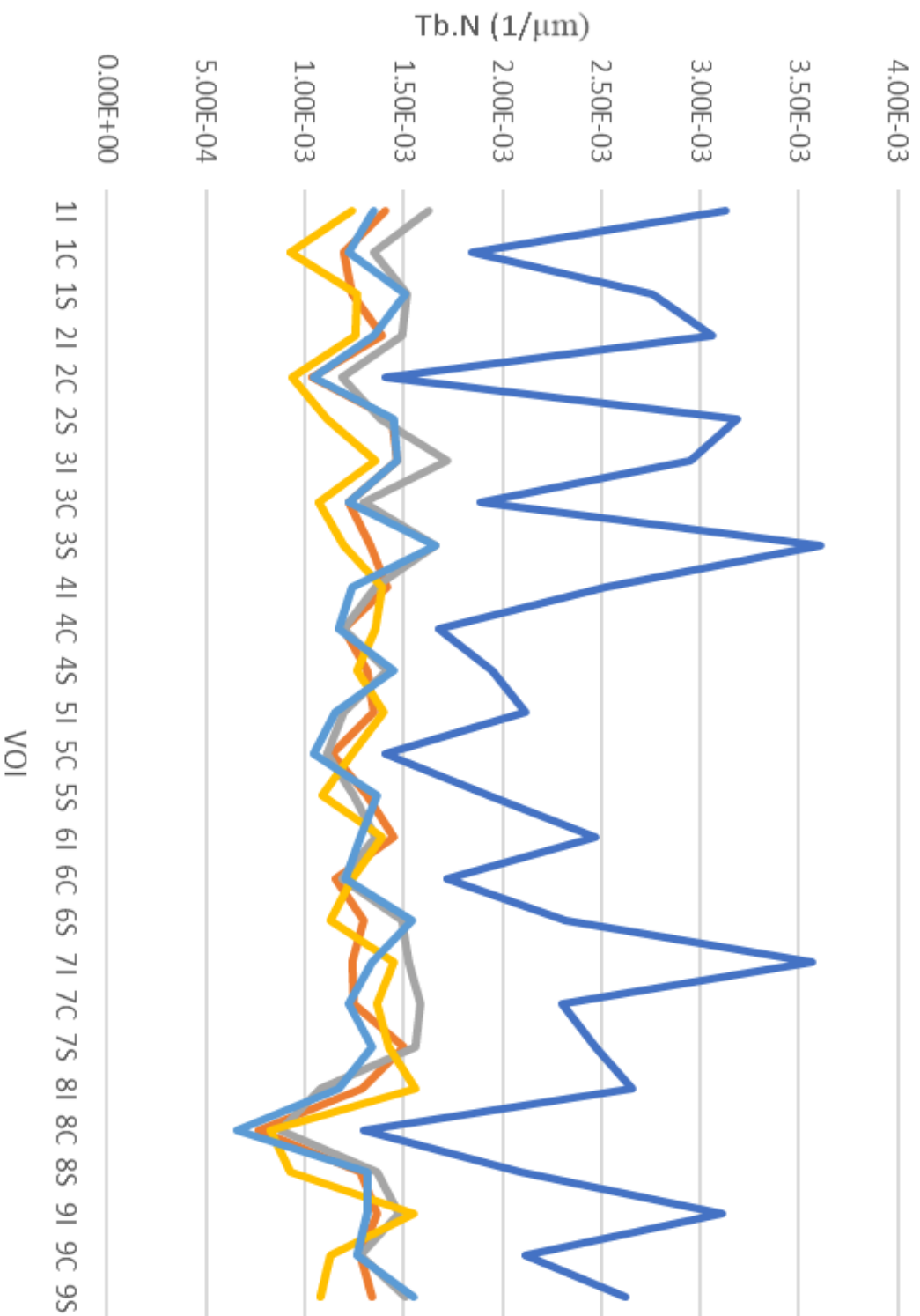
Comparison	Diff of Ranks	q	P	P<0.050
SC-046 vs SC-071	1959.000	9.638	<0.001	Yes
SC-046 vs SC-021	1730.500	8.514	<0.001	Yes
SC-046 vs SC-024	1701.000	8.369	<0.001	Yes
SC-046 vs SC-070	1332.000	6.554	<0.001	Yes
SC-070 vs SC-071	627.000	3.085	0.187	No
SC-070 vs SC-021	398.500	1.961	0.637	Do Not Test
SC-070 vs SC-024	369.000	1.816	0.701	Do Not Test
SC-024 vs SC-071	258.000	1.269	0.898	Do Not Test
SC-024 vs SC-021	29.500	0.145	1.000	Do Not Test
SC-021 vs SC-071	228.500	1.124	0.932	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

Youngest different to majority.

L5 4wks-2y Tb.N



— SC-046 — SC-021 — SC-070 — SC-071 — SC-024

One Way Analysis of Variance

01 December 2018 21:59:51

Data source: Tb.Sp in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 21:59:51

Data source: Tb.Sp in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	329.305	265.910	366.471
SC-021	27	0	542.577	525.564	594.317
SC-070	27	0	596.836	542.740	627.650
SC-071	27	0	492.335	472.766	533.361
SC-024	27	0	546.036	508.032	612.711

H = 64.922 with 4 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

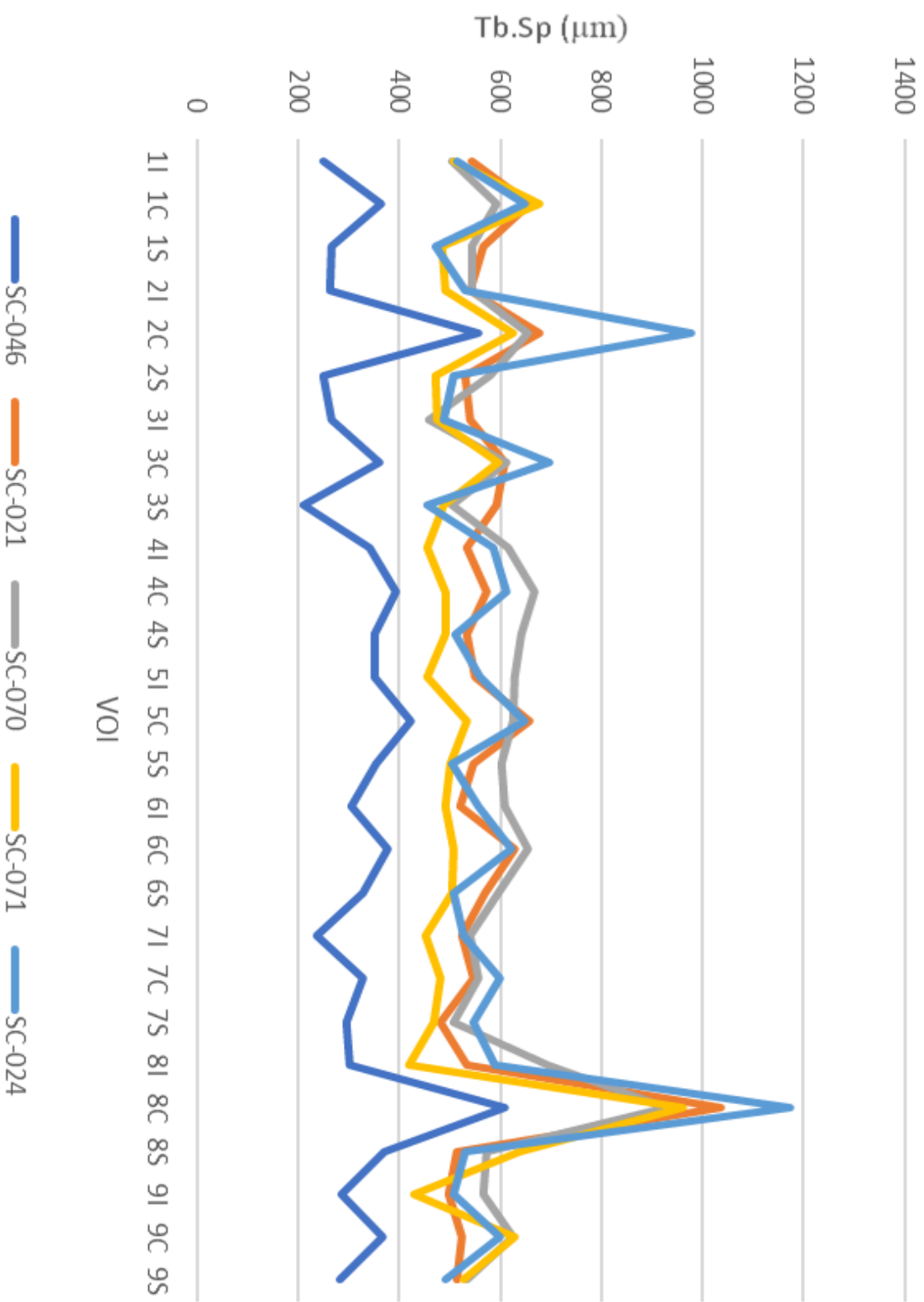
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-070 vs SC-046	2062.000	10.145	<0.001	Yes
SC-070 vs SC-071	990.000	4.871	0.005	Yes
SC-070 vs SC-024	376.000	1.850	0.686	No
SC-070 vs SC-021	302.000	1.486	0.832	Do Not Test
SC-021 vs SC-046	1760.000	8.659	<0.001	Yes
SC-021 vs SC-071	688.000	3.385	0.117	No
SC-021 vs SC-024	74.000	0.364	0.999	Do Not Test
SC-024 vs SC-046	1686.000	8.295	<0.001	Yes
SC-024 vs SC-071	614.000	3.021	0.205	Do Not Test
SC-071 vs SC-046	1072.000	5.274	0.002	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 4wks-2y Tb.Sp



One Way Analysis of Variance

01 December 2018 22:00:18

Data source: DA in L5 Between 0-2y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.473)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:00:18

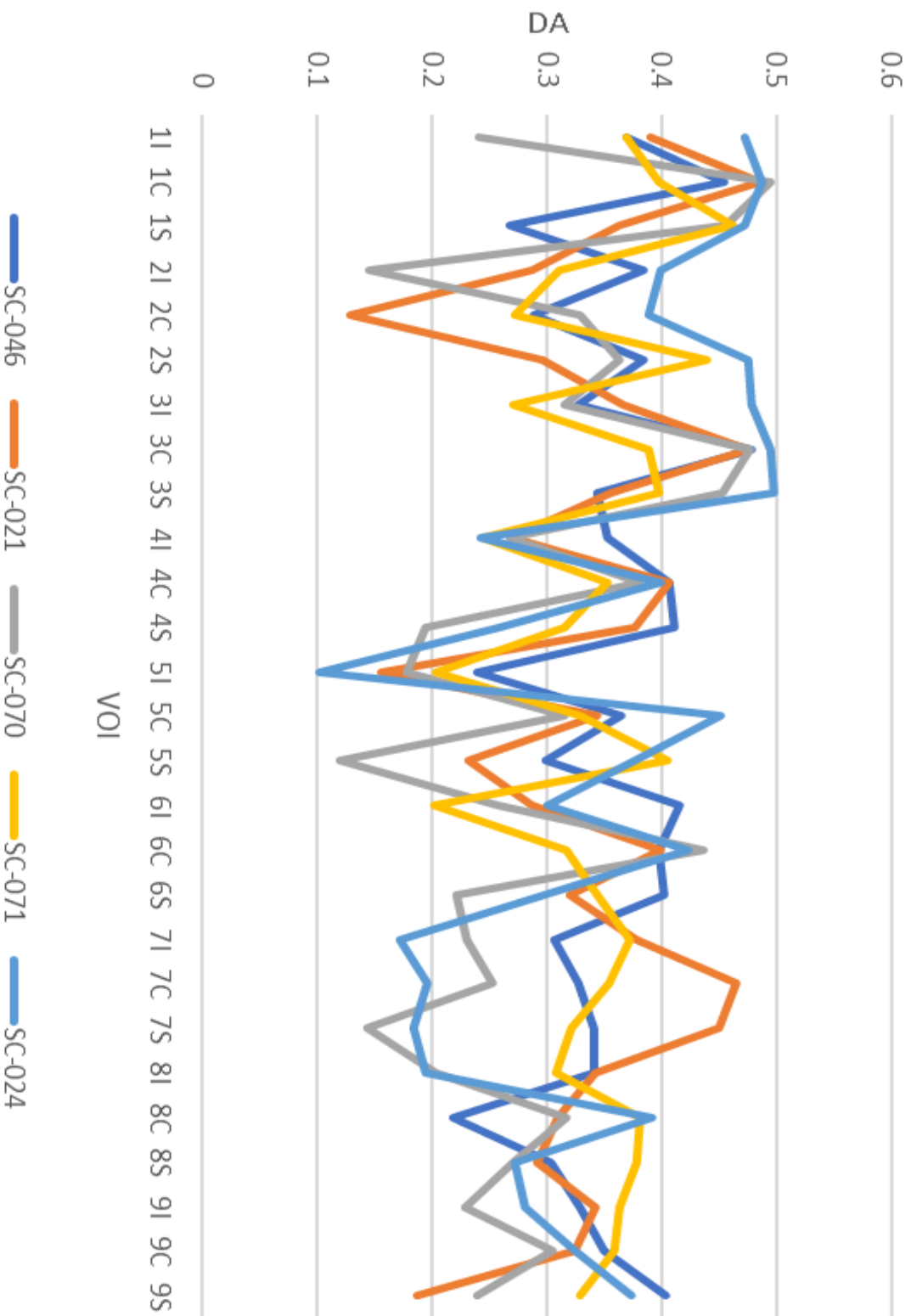
Data source: DA in L5 Between 0-2y Ind Only

Group	N	Missing	Median	25%	75%
SC-046	27	0	0.350	0.307	0.403
SC-021	27	0	0.343	0.288	0.391
SC-070	27	0	0.268	0.221	0.363
SC-071	27	0	0.354	0.311	0.382
SC-024	27	0	0.378	0.258	0.472

H = 8.341 with 4 degrees of freedom. (P = 0.080)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.080)

L5 4wks-2y DA



One Way Analysis of Variance

01 December 2018 22:08:06

Data source: BV/TV in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:08:06

Data source: BV/TV in L5 Between 3-5y Ind Only

Group	N	Missing	Median	25%	75%
SC-002	27	0	18.125	16.542	20.413
SC-025	27	0	15.229	12.847	16.579
SC-010	27	0	19.167	17.434	23.276
SC-026	27	0	20.216	17.622	21.890

H = 42.070 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

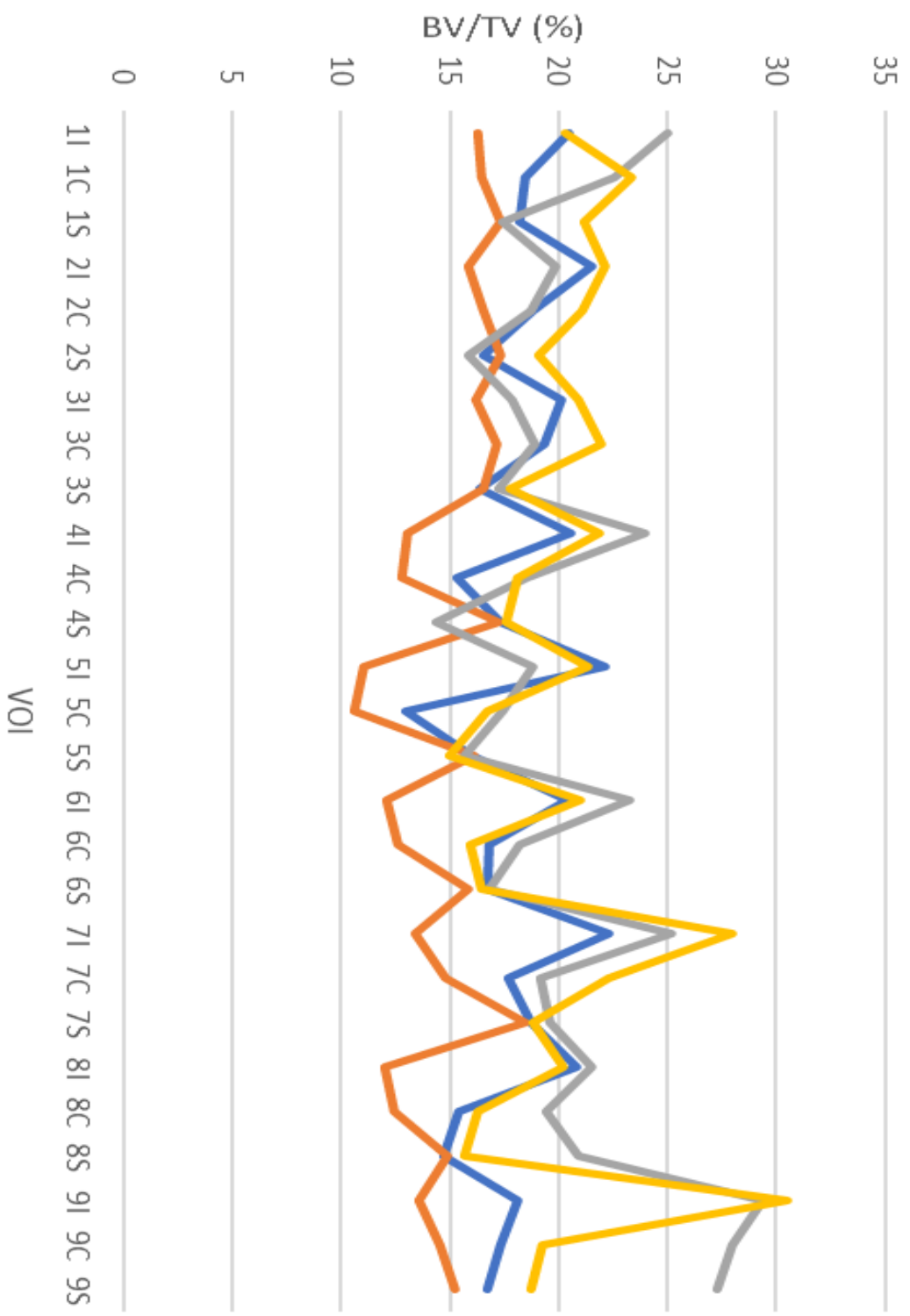
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-010 vs SC-025	1305.000	8.019	<0.001	Yes
SC-010 vs SC-002	424.000	2.605	0.254	No
SC-010 vs SC-026	25.000	0.154	1.000	Do Not Test
SC-026 vs SC-025	1280.000	7.865	<0.001	Yes
SC-026 vs SC-002	399.000	2.452	0.306	Do Not Test
SC-002 vs SC-025	881.000	5.413	<0.001	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 3-5y BV/TV



— SC-002 — SC-025 — SC-010 — SC-026

One Way Analysis of Variance

01 December 2018 22:08:39

Data source: SMI in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.099)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:08:39

Data source: SMI in L5 Between 3-5y Ind Only

Group	N	Missing	Median	25%	75%
SC-002	27	0	1.558	1.304	1.631
SC-025	27	0	1.277	1.212	1.430
SC-010	27	0	1.326	1.166	1.561
SC-026	27	0	1.364	1.241	1.491

H = 12.495 with 3 degrees of freedom. (P = 0.006)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.006)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

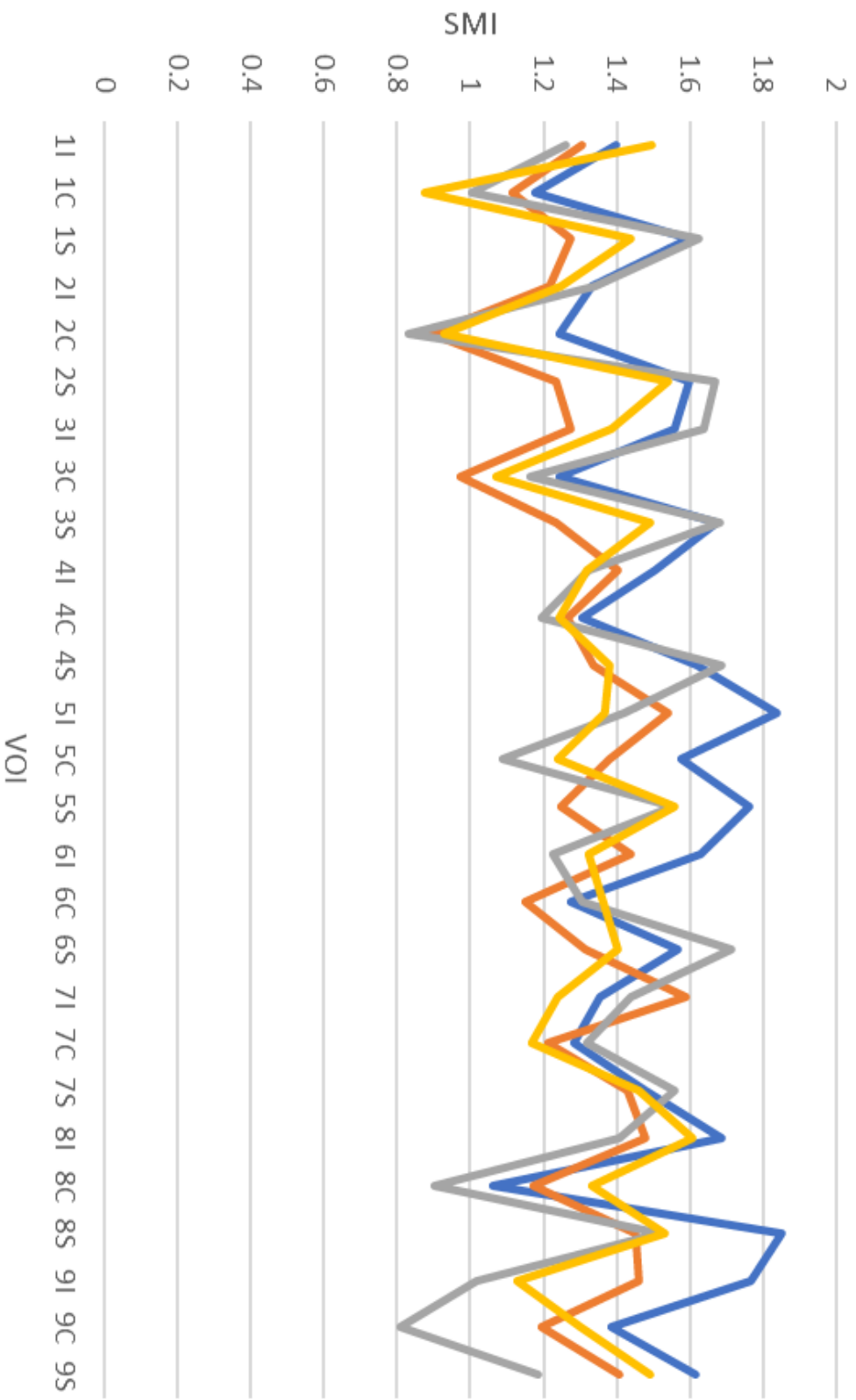
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-002 vs SC-025	771.000	4.737	0.004	Yes
SC-002 vs SC-026	585.000	3.595	0.054	No
SC-002 vs SC-010	550.000	3.379	0.079	Do Not Test
SC-010 vs SC-025	221.000	1.358	0.772	No
SC-010 vs SC-026	35.000	0.215	0.999	Do Not Test
SC-026 vs SC-025	186.000	1.143	0.851	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 3-5y SMI



— SC-002 — SC-025 — SC-010 — SC-026

One Way Analysis of Variance

01 December 2018 22:09:07

Data source: Tb.Th in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:09:07

Data source: Tb.Th in L5 Between 3-5y Ind Only

Group	N	Missing	Median	25%	75%
SC-002	27	0	124.130	112.697	141.456
SC-025	27	0	106.423	103.244	111.673
SC-010	27	0	142.634	133.723	174.103
SC-026	27	0	142.608	133.493	152.411

H = 48.452 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

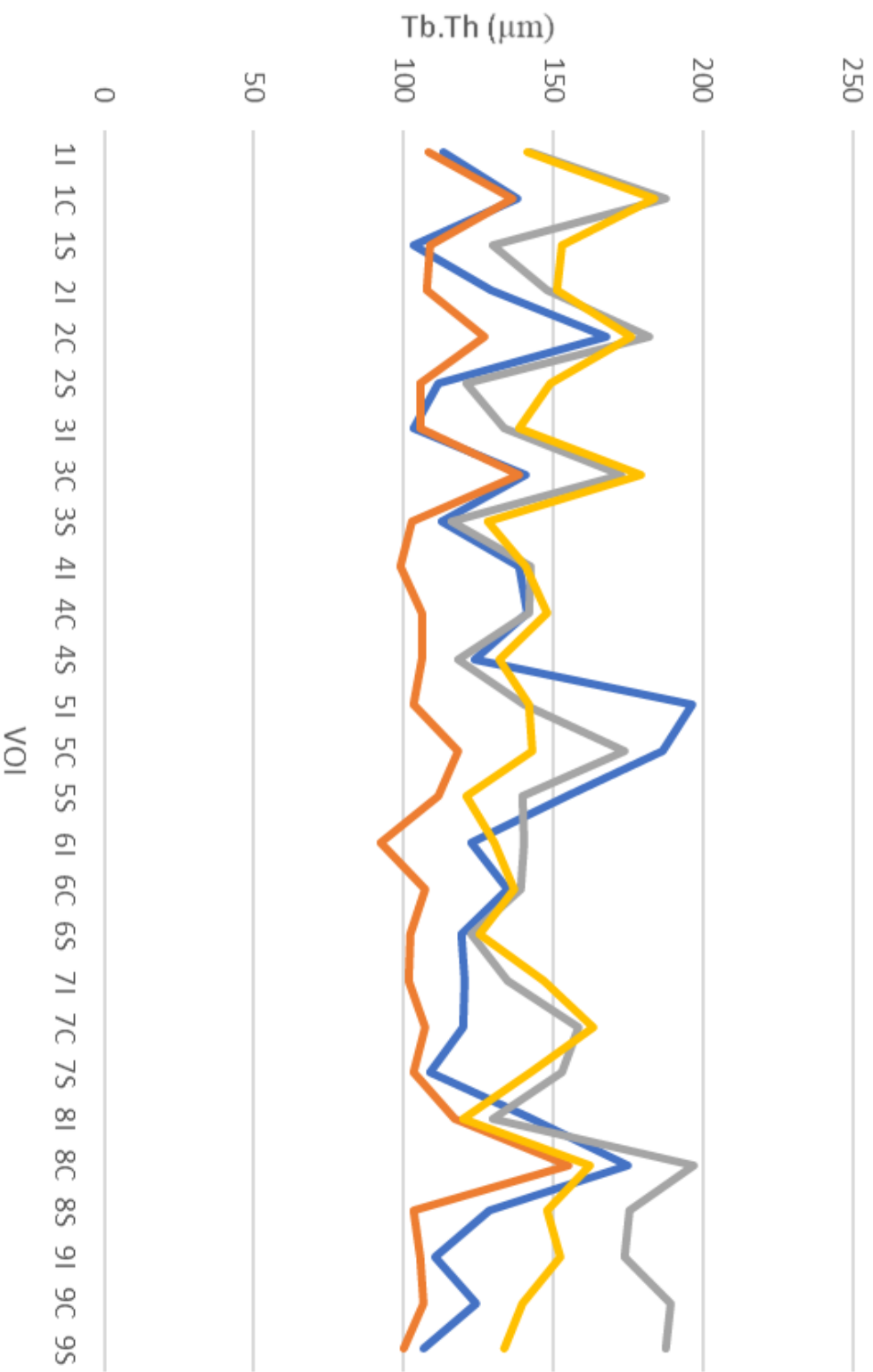
To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-010 vs SC-025	1413.000	8.682	<0.001	Yes
SC-010 vs SC-002	622.000	3.822	0.035	Yes
SC-010 vs SC-026	67.000	0.412	0.991	No
SC-026 vs SC-025	1346.000	8.270	<0.001	Yes
SC-026 vs SC-002	555.000	3.410	0.075	No
SC-002 vs SC-025	791.000	4.860	0.003	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

L5 3-5y Tb.Th



— SC-002 — SC-025 — SC-010 — SC-026

One Way Analysis of Variance

01 December 2018 22:09:57

Data source: Tb.N in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.852)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.450)

Group Name	N	Missing	Mean	Std Dev	SEM
SC-002	27	0	0.00142	0.000303	0.0000582
SC-025	27	0	0.00136	0.000233	0.0000449
SC-010	27	0	0.00136	0.000237	0.0000457
SC-026	27	0	0.00139	0.000228	0.0000439

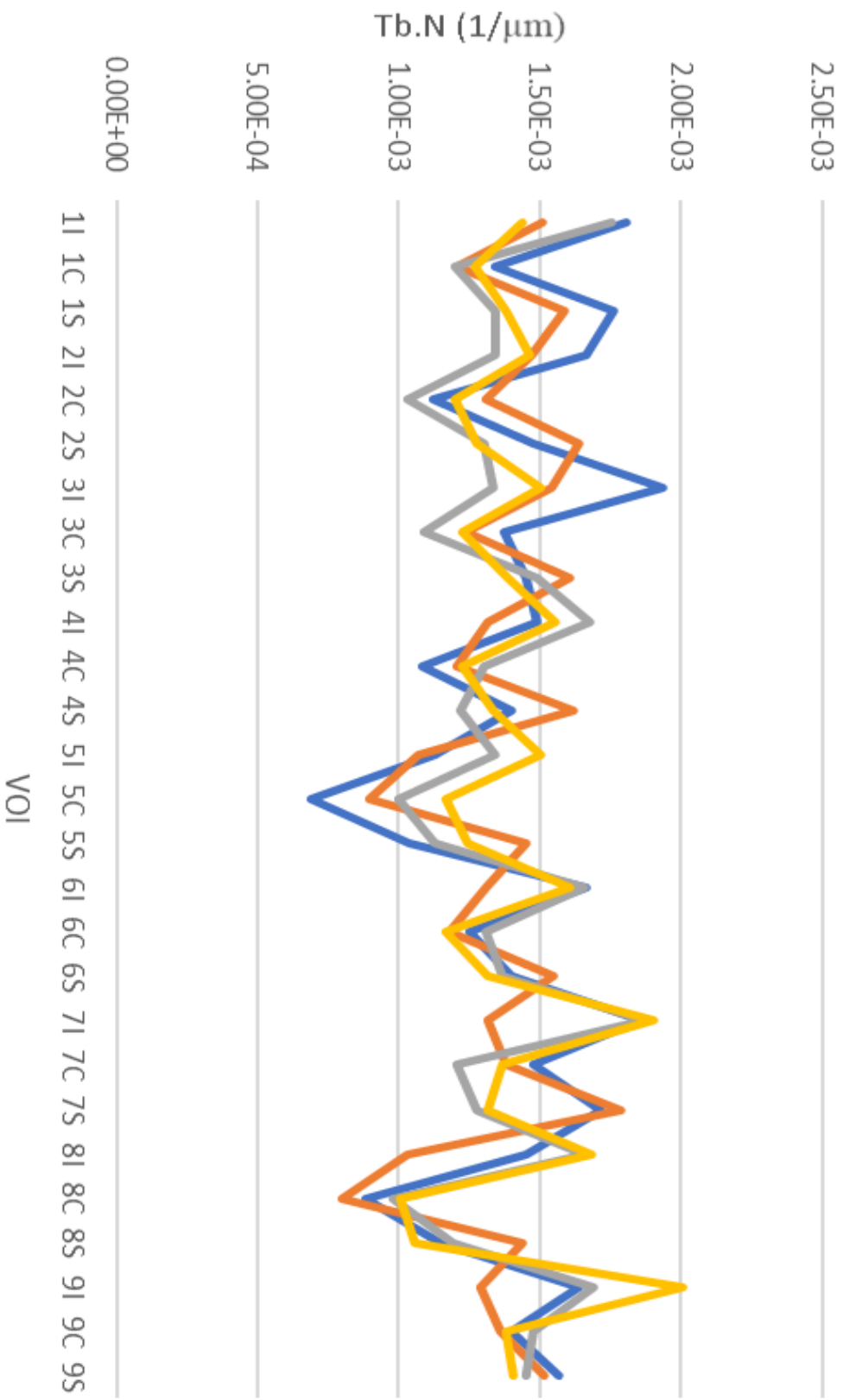
Source of Variation	DF	SS	MS	F	P
Between Groups	3	0.0000000598	0.0000000199	0.313	0.816
Residual	104	0.00000661	0.0000000635		
Total	107	0.00000667			

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.816).

Power of performed test with alpha = 0.050: 0.050

The power of the performed test (0.050) is below the desired power of 0.800. Less than desired power indicates you are less likely to detect a difference when one actually exists. Negative results should be interpreted cautiously.

L5 3-5y Tb.N



— SC-002 — SC-025 — SC-010 — SC-026

One Way Analysis of Variance

01 December 2018 22:10:20

Data source: Tb.Sp in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:10:20

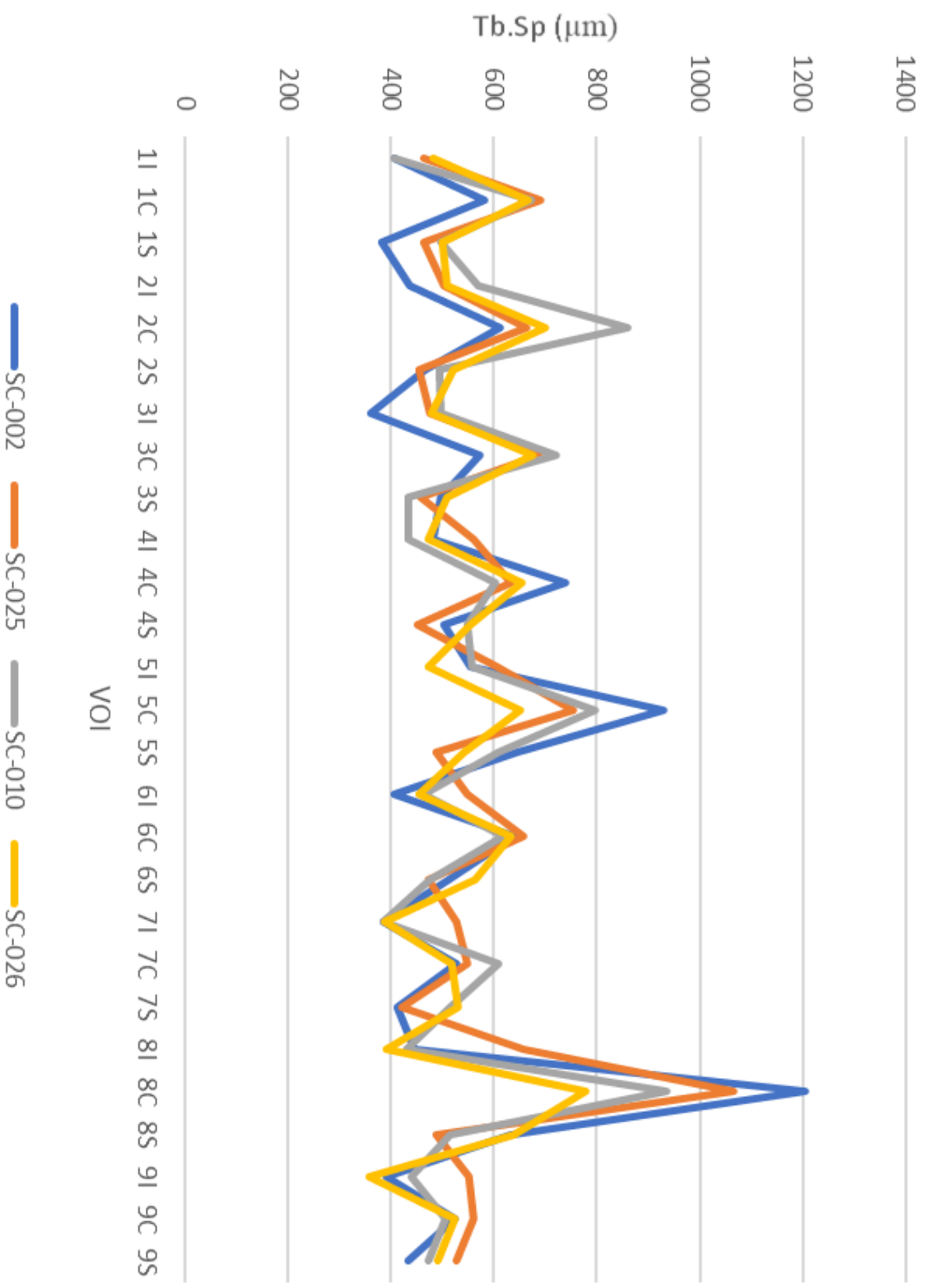
Data source: Tb.Sp in L5 Between 3-5y Ind Only

Group	N	Missing	Median	25%	75%
SC-002	27	0	504.815	413.931	612.465
SC-025	27	0	548.093	473.031	658.739
SC-010	27	0	514.580	462.675	610.495
SC-026	27	0	521.099	480.022	638.200

H = 2.033 with 3 degrees of freedom. (P = 0.566)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.566)

L5 3-5y Tb.Sp



One Way Analysis of Variance

01 December 2018 22:10:44

Data source: DA in L5 Between 3-5y Ind Only

Normality Test (Shapiro-Wilk): Passed (P = 0.333)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

01 December 2018 22:10:44

Data source: DA in L5 Between 3-5y Ind Only

Group	N	Missing	Median	25%	75%
SC-002	27	0	0.391	0.307	0.500
SC-025	27	0	0.345	0.252	0.460
SC-010	27	0	0.262	0.222	0.353
SC-026	27	0	0.306	0.222	0.458

H = 14.104 with 3 degrees of freedom. (P = 0.003)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.003)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

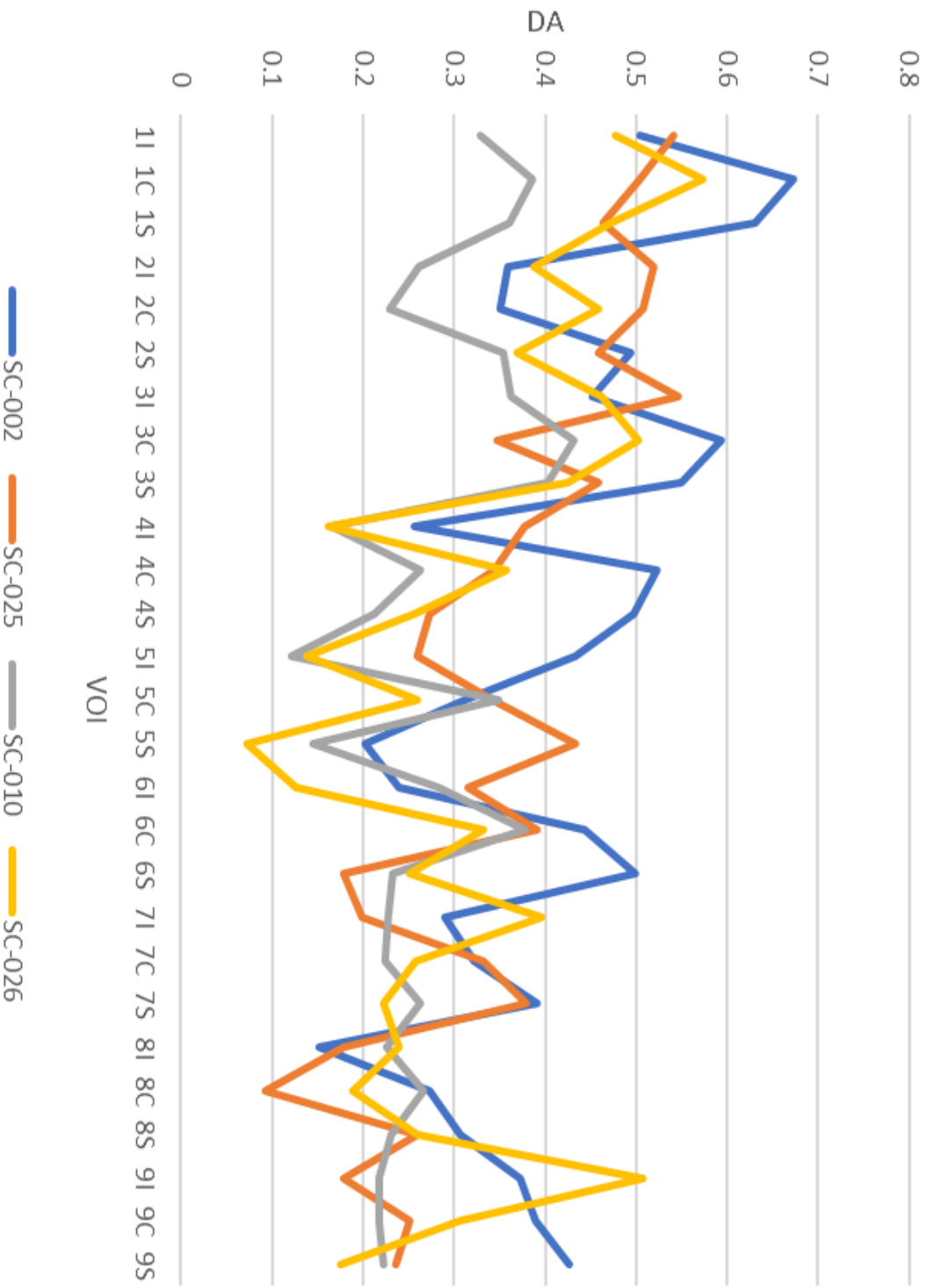
All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
SC-002 vs SC-010	843.000	5.180	0.001	Yes
SC-002 vs SC-026	517.000	3.177	0.111	No
SC-002 vs SC-025	326.000	2.003	0.489	Do Not Test
SC-025 vs SC-010	517.000	3.177	0.111	No
SC-025 vs SC-026	191.000	1.174	0.840	Do Not Test
SC-026 vs SC-010	326.000	2.003	0.489	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

L5 3-5y DA



One Way Analysis of Variance

Tuesday, February 19, 2019, 14:38:02

Data source: BV/TV in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:38:02

Data source: BV/TV in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	34.337	33.056	36.228
Perinatal	27	0	25.667	24.540	29.394
4wks-2y	27	0	15.076	12.923	17.335
3y+	27	0	14.132	12.759	16.407

H = 90.028 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 3y+	1886.000	11.588	<0.001	Yes
Fetal vs 4wks-2y	1733.000	10.648	<0.001	Yes
Fetal vs Perinatal	703.000	4.320	0.012	Yes
Perinatal vs 3y+	1183.000	7.269	<0.001	Yes
Perinatal vs 4wks-2y	1030.000	6.329	<0.001	Yes
4wks-2y vs 3y+	153.000	0.940	0.910	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:40:30

Data source: SMI in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:40:30

Data source: SMI in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	1.050	0.886	1.126
Perinatal	27	0	1.312	1.176	1.502
4wks-2y	27	0	1.556	1.457	1.656
3y+	27	0	1.609	1.428	1.717

H = 60.025 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1555.000	9.555	<0.001	Yes
3y+ vs Perinatal	732.000	4.498	0.008	Yes
3y+ vs 4wks-2y	51.000	0.313	0.996	No
4wks-2y vs Fetal	1504.000	9.241	<0.001	Yes
4wks-2y vs Perinatal	681.000	4.184	0.016	Yes
Perinatal vs Fetal	823.000	5.057	0.002	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:44:59

Data source: Tb.Th in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:44:59

Data source: Tb.Th in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	81.836	71.405	94.914
Perinatal	27	0	96.344	90.740	110.143
4wks-2y	27	0	103.000	94.332	112.924
3y+	27	0	113.519	108.409	131.734

H = 46.069 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1541.000	9.469	<0.001	Yes
3y+ vs Perinatal	829.000	5.094	0.002	Yes
3y+ vs 4wks-2y	588.000	3.613	0.052	No
4wks-2y vs Fetal	953.000	5.856	<0.001	Yes
4wks-2y vs Perinatal	241.000	1.481	0.722	No
Perinatal vs Fetal	712.000	4.375	0.011	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:46:09

Data source: Tb.N in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:46:09

Data source: Tb.N in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	0.00436	0.00389	0.00492
Perinatal	27	0	0.00277	0.00223	0.00293
4wks-2y	27	0	0.00150	0.00129	0.00160
3y+	27	0	0.00123	0.00110	0.00135

H = 92.113 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 3y+	2006.000	12.326	<0.001	Yes
Fetal vs 4wks-2y	1575.000	9.678	<0.001	Yes
Fetal vs Perinatal	665.000	4.086	0.020	Yes
Perinatal vs 3y+	1341.000	8.240	<0.001	Yes
Perinatal vs 4wks-2y	910.000	5.591	<0.001	Yes
4wks-2y vs 3y+	431.000	2.648	0.240	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:47:58

Data source: Tb.Sp in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:47:58

Data source: Tb.Sp in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	161.841	142.105	186.082
Perinatal	27	0	250.046	232.943	301.824
4wks-2y	27	0	465.605	425.039	561.291
3y+	27	0	542.600	499.262	648.654

H = 87.733 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1937.000	11.902	<0.001	Yes
3y+ vs Perinatal	1323.000	8.129	<0.001	Yes
3y+ vs 4wks-2y	390.000	2.396	0.327	No
4wks-2y vs Fetal	1547.000	9.505	<0.001	Yes
4wks-2y vs Perinatal	933.000	5.733	<0.001	Yes
Perinatal vs Fetal	614.000	3.773	0.038	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:49:38

Data source: DA in L1 Between Age Cohorts

Normality Test (Shapiro-Wilk): Passed (P = 0.448)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:49:38

Data source: DA in L1 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	0.398	0.357	0.459
Perinatal	27	0	0.386	0.364	0.407
4wks-2y	27	0	0.339	0.281	0.391
3y+	27	0	0.299	0.247	0.439

H = 11.866 with 3 degrees of freedom. (P = 0.008)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.008)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 4wks-2y	706.000	4.338	0.012	Yes
Fetal vs 3y+	629.000	3.865	0.032	Yes
Fetal vs Perinatal	307.000	1.886	0.541	No
Perinatal vs 4wks-2y	399.000	2.452	0.306	No
Perinatal vs 3y+	322.000	1.979	0.500	Do Not Test
3y+ vs 4wks-2y	77.000	0.473	0.987	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

Tuesday, February 19, 2019, 14:59:35

Data source: BV/TV in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 14:59:35

Data source: BV/TV in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	25.894	23.697	28.177
Perinatal	27	0	23.832	21.809	24.948
4wks-2y	27	0	13.112	11.614	14.514
3y+	27	0	11.695	10.718	14.118

H = 82.867 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 3y+	1719.000	10.562	<0.001	Yes
Fetal vs 4wks-2y	1490.000	9.155	<0.001	Yes
Fetal vs Perinatal	293.000	1.800	0.580	No
Perinatal vs 3y+	1426.000	8.762	<0.001	Yes
Perinatal vs 4wks-2y	1197.000	7.355	<0.001	Yes
4wks-2y vs 3y+	229.000	1.407	0.752	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:01:23

Data source: SMI in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:01:23

Data source: SMI in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	1.472	1.246	1.697
Perinatal	27	0	1.486	1.305	1.620
4wks-2y	27	0	1.643	1.563	1.689
3y+	27	0	1.706	1.403	1.811

H = 12.235 with 3 degrees of freedom. (P = 0.007)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.007)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Perinatal	652.000	4.006	0.024	Yes
3y+ vs Fetal	573.000	3.521	0.062	No
3y+ vs 4wks-2y	101.000	0.621	0.972	Do Not Test
4wks-2y vs Perinatal	551.000	3.386	0.078	No
4wks-2y vs Fetal	472.000	2.900	0.170	Do Not Test
Fetal vs Perinatal	79.000	0.485	0.986	Do Not Test

Note: The multiple comparisons on ranks do not include an adjustment for ties.

A result of "Do Not Test" occurs for a comparison when no significant difference is found between the two rank sums that enclose that comparison. For example, if you had four rank sums sorted in order, and found no significant difference between rank sums 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed rank sums is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the rank sums, even though one may appear to exist.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:02:28

Data source: Tb.Th in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:02:28

Data source: Tb.Th in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	64.063	59.049	74.637
Perinatal	27	0	89.440	85.650	102.290
4wks-2y	27	0	98.440	92.447	106.480
3y+	27	0	103.970	97.422	116.613

H = 65.703 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1731.000	10.636	<0.001	Yes
3y+ vs Perinatal	777.000	4.774	0.004	Yes
3y+ vs 4wks-2y	274.000	1.684	0.633	No
4wks-2y vs Fetal	1457.000	8.952	<0.001	Yes
4wks-2y vs Perinatal	503.000	3.091	0.127	No
Perinatal vs Fetal	954.000	5.862	<0.001	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:05:50

Data source: Tb.N in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:05:50

Data source: Tb.N in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	0.00419	0.00371	0.00442
Perinatal	27	0	0.00267	0.00218	0.00276
4wks-2y	27	0	0.00135	0.00116	0.00146
3y+	27	0	0.00115	0.00107	0.00126

H = 92.038 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 3y+	1991.500	12.237	<0.001	Yes
Fetal vs 4wks-2y	1623.500	9.976	<0.001	Yes
Fetal vs Perinatal	699.000	4.295	0.013	Yes
Perinatal vs 3y+	1292.500	7.942	<0.001	Yes
Perinatal vs 4wks-2y	924.500	5.681	<0.001	Yes
4wks-2y vs 3y+	368.000	2.261	0.379	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:08:26

Data source: Tb.Sp in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:08:26

Data source: Tb.Sp in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	163.444	147.779	184.863
Perinatal	27	0	268.047	248.097	307.239
4wks-2y	27	0	495.371	471.589	586.511
3y+	27	0	546.341	514.269	684.040

H = 85.790 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1879.000	11.545	<0.001	Yes
3y+ vs Perinatal	1249.000	7.674	<0.001	Yes
3y+ vs 4wks-2y	274.000	1.684	0.633	No
4wks-2y vs Fetal	1605.000	9.862	<0.001	Yes
4wks-2y vs Perinatal	975.000	5.991	<0.001	Yes
Perinatal vs Fetal	630.000	3.871	0.031	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:09:31

Data source: DA in L3 Between Age Cohorts

Normality Test (Shapiro-Wilk): Passed (P = 0.304)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:09:31

Data source: DA in L3 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	0.393	0.348	0.431
Perinatal	27	0	0.376	0.350	0.413
4wks-2y	27	0	0.355	0.303	0.415
3y+	27	0	0.298	0.237	0.445

H = 3.883 with 3 degrees of freedom. (P = 0.274)

The differences in the median values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.274)

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:13:19

Data source: BV/TV in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Passed (P = 0.936)

Equal Variance Test (Brown-Forsythe): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:13:19

Data source: BV/TV in L5 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	34.349	31.421	36.707
Perinatal	27	0	36.031	32.793	37.799
4wks-2y	27	0	16.517	15.076	18.298
3y+	27	0	18.637	16.582	19.798

H = 82.586 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Perinatal vs 4wks-2y	1691.000	10.390	<0.001	Yes
Perinatal vs 3y+	1372.000	8.430	<0.001	Yes
Perinatal vs Fetal	147.000	0.903	0.919	No
Fetal vs 4wks-2y	1544.000	9.487	<0.001	Yes
Fetal vs 3y+	1225.000	7.527	<0.001	Yes
3y+ vs 4wks-2y	319.000	1.960	0.508	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:14:36

Data source: SMI in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:14:36

Data source: SMI in L5 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	1.121	0.896	1.200
Perinatal	27	0	0.858	0.703	1.062
4wks-2y	27	0	1.421	1.351	1.493
3y+	27	0	1.405	1.253	1.508

H = 65.649 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
4wks-2y vs Perinatal	1549.000	9.518	<0.001	Yes
4wks-2y vs Fetal	1160.000	7.128	<0.001	Yes
4wks-2y vs 3y+	137.000	0.842	0.934	No
3y+ vs Perinatal	1412.000	8.676	<0.001	Yes
3y+ vs Fetal	1023.000	6.286	<0.001	Yes
Fetal vs Perinatal	389.000	2.390	0.329	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:16:03

Data source: Tb.Th in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:16:03

Data source: Tb.Th in L5 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	75.029	60.928	92.065
Perinatal	27	0	123.146	117.703	135.121
4wks-2y	27	0	109.303	106.772	116.197
3y+	27	0	131.773	123.763	140.022

H = 68.428 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1759.000	10.808	<0.001	Yes
3y+ vs 4wks-2y	934.000	5.739	<0.001	Yes
3y+ vs Perinatal	305.000	1.874	0.547	No
Perinatal vs Fetal	1454.000	8.934	<0.001	Yes
Perinatal vs 4wks-2y	629.000	3.865	0.032	Yes
4wks-2y vs Fetal	825.000	5.069	0.002	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:17:10

Data source: Tb.N in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:17:10

Data source: Tb.N in L5 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	0.00447	0.00413	0.00511
Perinatal	27	0	0.00297	0.00237	0.00313
4wks-2y	27	0	0.00155	0.00134	0.00171
3y+	27	0	0.00141	0.00123	0.00152

H = 89.695 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
Fetal vs 3y+	1914.000	11.760	<0.001	Yes
Fetal vs 4wks-2y	1663.000	10.218	<0.001	Yes
Fetal vs Perinatal	661.000	4.061	0.021	Yes
Perinatal vs 3y+	1253.000	7.699	<0.001	Yes
Perinatal vs 4wks-2y	1002.000	6.157	<0.001	Yes
4wks-2y vs 3y+	251.000	1.542	0.695	No

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:18:04

Data source: Tb.Sp in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Failed (P < 0.050)

Test execution ended by user request, ANOVA on Ranks begun

Kruskal-Wallis One Way Analysis of Variance on Ranks

Tuesday, February 19, 2019, 15:18:04

Data source: Tb.Sp in L5 Between Age Cohorts

Group	N	Missing	Median	25%	75%
Fetal	27	0	156.800	136.370	175.883
Perinatal	27	0	207.415	199.197	255.796
4wks-2y	27	0	503.310	466.873	549.110
3y+	27	0	506.558	470.680	637.200

H = 86.046 with 3 degrees of freedom. (P = <0.001)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparison	Diff of Ranks	q	P	P<0.050
3y+ vs Fetal	1787.000	10.980	<0.001	Yes
3y+ vs Perinatal	1183.000	7.269	<0.001	Yes
3y+ vs 4wks-2y	76.000	0.467	0.988	No
4wks-2y vs Fetal	1711.000	10.513	<0.001	Yes
4wks-2y vs Perinatal	1107.000	6.802	<0.001	Yes
Perinatal vs Fetal	604.000	3.711	0.043	Yes

Note: The multiple comparisons on ranks do not include an adjustment for ties.

One Way Analysis of Variance

Tuesday, February 19, 2019, 15:18:55

Data source: DA in L5 Between Age Cohorts

Normality Test (Shapiro-Wilk): Passed (P = 0.425)

Equal Variance Test (Brown-Forsythe): Passed (P = 0.085)

Group Name	N	Missing	Mean	Std Dev	SEM
Fetal	27	0	0.372	0.0765	0.0147
Perinatal	27	0	0.468	0.0643	0.0124
4wks-2y	27	0	0.333	0.0630	0.0121
3y+	27	0	0.336	0.0961	0.0185

Source of Variation	DF	SS	MS	F	P
Between Groups	3	0.318	0.106	18.288	<0.001
Residual	104	0.603	0.00580		
Total	107	0.921			

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001).

Power of performed test with alpha = 0.050: 1.000

All Pairwise Multiple Comparison Procedures (Holm-Sidak method):

Overall significance level = 0.05

Comparisons for factor:

Comparison	Diff of Means	t	P	P<0.050
Perinatal vs. 4wks-2y	0.134	6.480	<0.001	Yes
Perinatal vs. 3y+	0.131	6.329	<0.001	Yes
Perinatal vs. Fetal	0.0952	4.595	<0.001	Yes
Fetal vs. 4wks-2y	0.0391	1.885	0.175	No
Fetal vs. 3y+	0.0359	1.734	0.164	No
3y+ vs. 4wks-2y	0.00313	0.151	0.880	No