Oneway

Notes

Output Created		28-FEB-2022 21:12:15
Comments		
Input	Data	/Users/benjamin/Desktop/AP Research/21-22-PAS-AP-Research/Experiment 2/E2-Raw/E2-A.csv
	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	25
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Difference BY pH /ES=OVERALL /STATISTICS HOMOGENEITY /MISSING ANALYSIS /CRITERIA=CILEVEL (0.95) /POSTHOC=TUKEY ALPHA(0.05).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.00

[DataSet5]

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Difference	Based on Mean	2.557	4	20	.070
	Based on Median	1.184	4	20	.348
	Based on Median and with adjusted df	1.184	4	14.781	.358
	Based on trimmed mean	2.561	4	20	.070

ANOVA

Difference

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.059	4	.015	171419.271	<.001
Within Groups	.000	20	.000		
Total	.059	24			

ANOVA Effect Sizes[a]

		Point Estimate	95% Confidence Interval Lower	95% Confidence Interval Upper
Difference	Eta-squared	1.000	1.000	1.000
	Epsilon-squared	1.000	1.000	1.000
	Omega-squared Fixed-effect	1.000	1.000	1.000
	Omega-squared Random-effect	1.000	1.000	1.000

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Difference

Tukey HSD

(I) pH	(J) pH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
1	4	-.0370200*	.0001850	<.001	-.037574	-.036466
	7	-.0837800*	.0001850	<.001	-.084334	-.083226
	10	-.1029800*	.0001850	<.001	-.103534	-.102426
	13	-.1370600*	.0001850	<.001	-.137614	-.136506
4	1	.0370200*	.0001850	<.001	.036466	.037574
	7	-.0467600*	.0001850	<.001	-.047314	-.046206
	10	-.0659600*	.0001850	<.001	-.066514	-.065406
	13	-.1000400*	.0001850	<.001	-.100594	-.099486
7	1	.0837800*	.0001850	<.001	.083226	.084334
	4	.0467600*	.0001850	<.001	.046206	.047314
	10	-.0192000*	.0001850	<.001	-.019754	-.018646
	13	-.0532800*	.0001850	<.001	-.053834	-.052726
10	1	.1029800*	.0001850	<.001	.102426	.103534
	4	.0659600*	.0001850	<.001	.065406	.066514

Multiple Comparisons

Dependent Variable: Difference

Tukey HSD

(I) pH	(J) pH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
	7	.0192000*	.0001850	<.001	.018646	.019754
	13	-.0340800*	.0001850	<.001	-.034634	-.033526
13	1	.1370600*	.0001850	<.001	.136506	.137614
	4	.1000400*	.0001850	<.001	.099486	.100594
	7	.0532800*	.0001850	<.001	.052726	.053834
	10	.0340800*	.0001850	<.001	.033526	.034634

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Difference

Tukey HSD[a]

pH	N	Subset for alpha = 0.05				
		1	2	3	4	5
1	5	-.150840				
4	5		-.113820			
7	5			-.067060		
10	5				-.047860	
13	5					-.013780
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.