

Oneway

Notes

Output Created		28-FEB-2022 21:21:00
Comments		
Input	Data	/Users/benjamin/Desktop/AP Research/21-22-PAS-AP-Research/Experiment 2/E2-Raw/E2-AA.csv
	Active Dataset	DataSet6
	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

[DataSet6]

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Difference	Based on Mean	.484	4	20	.747
	Based on Median	.158	4	20	.957
	Based on Median and with adjusted df	.158	4	16.910	.957
	Based on trimmed mean	.480	4	20	.750

ANOVA

Difference

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.007	4	.002	4006.189	<.001
Within Groups	.000	20	.000		
Total	.007	24			

ANOVA Effect Sizes^a

Difference		Point Estimate	95% Confidence Interval	
			Lower	Upper
	Eta-squared	.999	.997	.999
	Epsilon-squared	.999	.996	.999
	Omega-squared Fixed-effect	.998	.996	.999
	Omega-squared Random-effect	.994	.984	.995

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	Upper Bound
1	4	-.0021400 *	.0004054	<.001	-.003353	-.000927
	7	-.0040000 *	.0004054	<.001	-.005213	-.002787
	10	-.0230400 *	.0004054	<.001	-.024253	-.021827
	13	-.0422600 *	.0004054	<.001	-.043473	-.041047
4	1	.0021400 *	.0004054	<.001	.000927	.003353
	7	-.0018600 *	.0004054	.001	-.003073	-.000647
	10	-.0209000 *	.0004054	<.001	-.022113	-.019687
	13	-.0401200 *	.0004054	<.001	-.041333	-.038907
7	1	.0040000 *	.0004054	<.001	.002787	.005213
	4	.0018600 *	.0004054	.001	.000647	.003073
	10	-.0190400 *	.0004054	<.001	-.020253	-.017827
	13	-.0382600 *	.0004054	<.001	-.039473	-.037047
10	1	.0230400 *	.0004054	<.001	.021827	.024253
	4	.0209000 *	.0004054	<.001	.019687	.022113

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	.0190400 *	.0004054	<.001	.017827	.020253
	13	-.0192200 *	.0004054	<.001	-.020433	-.018007
13	1	.0422600 *	.0004054	<.001	.041047	.043473
	4	.0401200 *	.0004054	<.001	.038907	.041333
	7	.0382600 *	.0004054	<.001	.037047	.039473
	10	.0192200 *	.0004054	<.001	.018007	.020433

*. 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	-.053500				
4	5		-.051360			
7	5			-.049500		
10	5				-.030460	
13	5					-.011240
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.