

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
group	4	high low normal very_hig

Number of Observations Read	20
Number of Observations Used	20

The ANOVA Procedure

Dependent Variable: pressure

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	42.45750000	14.15250000	6.73	0.0038
Error	16	33.62800000	2.10175000		
Corrected Total	19	76.08550000			

R-Square	Coeff Var	Root MSE	pressure Mean
0.558024	17.86496	1.449741	8.115000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
group	3	42.45750000	14.15250000	6.73	0.0038

The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for pressure

Note: This test controls the Type I experimentwise error rate.

Alpha	0.025
Error Degrees of Freedom	16
Error Mean Square	2.10175
Critical Value of Studentized Range	4.54742
Minimum Significant Difference	2.9483

Comparisons significant at the 0.025 level are indicated by ***.				
group Comparison	Difference Between Means	Simultaneous 97.5% Confidence Limits		
normal - low	0.4800	-2.4683	3.4283	
normal - high	2.5600	-0.3883	5.5083	
normal - very_hig	3.5400	0.5917	6.4883	***
low - normal	-0.4800	-3.4283	2.4683	
low - high	2.0800	-0.8683	5.0283	
low - very_hig	3.0600	0.1117	6.0083	***
high - normal	-2.5600	-5.5083	0.3883	
high - low	-2.0800	-5.0283	0.8683	
high - very_hig	0.9800	-1.9683	3.9283	
very_hig - normal	-3.5400	-6.4883	-0.5917	***
very_hig - low	-3.0600	-6.0083	-0.1117	***
very_hig - high	-0.9800	-3.9283	1.9683	

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable pressure Classified by Variable group					
group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
low	5	73.0	52.50	11.456439	14.60
normal	5	76.0	52.50	11.456439	15.20
high	5	39.0	52.50	11.456439	7.80
very_hig	5	22.0	52.50	11.456439	4.40

Kruskal-Wallis Test	
Chi-Square	11.9143
DF	3
Pr > Chi-Square	0.0077

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Tukey's Studentized Range (HSD) Test for pressure

Note: This test controls the Type I experimentwise error rate.

Alpha	0.1
Error Degrees of Freedom	16
Error Mean Square	2.10175
Critical Value of Studentized Range	3.52003
Minimum Significant Difference	2.2822

Comparisons significant at the 0.1 level are indicated by ***.				
group Comparison	Difference Between Means	Simultaneous 90% Confidence Limits		
normal - low	0.4800	-1.8022	2.7622	
normal - high	2.5600	0.2778	4.8422	***
normal - very_hig	3.5400	1.2578	5.8222	***
low - normal	-0.4800	-2.7622	1.8022	
low - high	2.0800	-0.2022	4.3622	
low - very_hig	3.0600	0.7778	5.3422	***
high - normal	-2.5600	-4.8422	-0.2778	***
high - low	-2.0800	-4.3622	0.2022	
high - very_hig	0.9800	-1.3022	3.2622	
very_hig - normal	-3.5400	-5.8222	-1.2578	***
very_hig - low	-3.0600	-5.3422	-0.7778	***
very_hig - high	-0.9800	-3.2622	1.3022	

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