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Program= MMPC Multiple Linear Regression Output

Date/Time: Wednesday, January 25, 2023 12:16 AM

Datafile = Glp1RLepRKO TSE for Ancova_Females lean mass.csv

Response Variable = ActT

Covariate = BW

Grouping Variable = Group


Alpha = 0.05

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14 total cases. Ctrl_F = 7, KO_F = 7


R squared = 0.477876,  R squared (adjusted) = -17.6171


Residual Standard Error 250.313 with 11 degrees of freedom


The interaction BW:Group is NOT significant. (p=0.6984)
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Source	SumOfSquares	df	MeanSquare	F-ratio	Pvalue	
Regression	3309	2	1655	0.02641	0.974	
Residual	6.892E+05	11	6.266E+04	.	.	

Variables	Estimate	StdError	Pvalue	
(Intercept)	591.6	518.7	0.2783	
BW	-7.832	36.14	0.8324	
Group	11.72	167.8	0.9456	

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| Basic Statistics - Avg(Stdev)
| ----------------------------
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Groups	Ctrl_F	KO_F	
ActT	481.11 (271.472)	470.88 (158.692)	
BW	14.11 (1.484)	16.92 (2.157)	

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| Model-based Statistics - Avg ActT(StErr)
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BW	Ctrl_F	KO_F	p-value	
Overall Mean	470.13 (107.31)	481.85 (107.31)	0.9456	
Group Means	481.14 (94.609)	470.85 (94.609)	0.9404	
Residual Var	102575.31145	33111.04011		

MMPC Regression Analysis Data Plots.