

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 = VCO2  
 Covariate = BW  
 Grouping Variable = Group

Alpha = 0.05

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14 total cases. Ctrl\_F = 7, KO\_F = 7

R squared = 19.8437, R squared (adjusted) = 5.26982

Residual Standard Error 11.073 with 11 degrees of freedom

The interaction BW:Group is NOT significant. (p=0.9284)

Source	SumOfSquares	df	MeanSquare	F-ratio	Pvalue
Regression	333.9	2	166.9	1.362	0.2962
Residual	1349	11	122.6	.	.

Variables	Estimate	StdError	Pvalue
(Intercept)	44.07	22.95	0.08107
BW	0.2768	1.599	0.8657
Group	8.938	7.423	0.2539

Basic Statistics - Avg(Stdev)

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Groups	Ctrl_F	KO_F
VCO2	47.98 (7.481)	57.69 (11.715)
BW	14.11 (1.484)	16.92 (2.157)

Model-based Statistics - Avg VCO2(StErr)

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BW	Ctrl_F	KO_F	p-value
Overall Mean	48.37 (4.747)	57.3 (4.747)	0.2539
Group Means	47.98 (4.185)	57.69 (4.185)	0.129
Residual Var	78.34694	191.17114	

MMPC Regression Analysis Data Plots.

