

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 = VO2  
 Covariate = BW  
 Grouping Variable = Group

Alpha = 0.05

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

R squared = 22.5295, R squared (adjusted) = 8.44391

Residual Standard Error 10.8728 with 11 degrees of freedom

The interaction BW:Group is NOT significant. (p=0.8177)

Source	SumOfSquares	df	MeanSquare	F-ratio	Pvalue
Regression	378.2	2	189.1	1.599	0.2456
Residual	1300	11	118.2	.	.

Variables	Estimate	StdError	Pvalue
(Intercept)	48.84	22.53	0.053
BW	0.05928	1.57	0.9706
Group	10.23	7.289	0.1882

Basic Statistics - Avg(Stdev)

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Groups	Ctrl_F	KO_F
VO2	49.68 (7.624)	60.07 (11.299)
BW	14.11 (1.484)	16.92 (2.157)

Model-based Statistics - Avg VO2(StErr)

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BW	Ctrl_F	KO_F	p-value
Overall Mean	49.76 (4.661)	59.99 (4.661)	0.1882
Group Means	49.68 (4.11)	60.07 (4.11)	0.1013
Residual Var	80.58443	178.04816	

MMPC Regression Analysis Data Plots.

