

Program= MMPC Multiple Linear Regression Output
 Date/Time: Wednesday, January 25, 2023 12:15 AM
 Datafile = Glp1RLepRKO TSE for Ancova Males Lean body mass.csv
 Response Variable = VCO2
 Covariate = BW
 Grouping Variable = Group

Alpha = 0.05

18 total cases. Ctrl_M = 8, KO_M = 10

R squared = 26.9561, R squared (adjusted) = 17.2169

Residual Standard Error 14.4446 with 15 degrees of freedom

The interaction BW:Group is NOT significant. (p=0.3466)

Source	SumOfSquares	df	MeanSquare	F-ratio	Pvalue	
Regression	1155	2	577.5	2.768	0.09482	
Residual	3130	15	208.6	.	.	

Variables	Estimate	StdError	Pvalue	
(Intercept)	-32.39	37.25	0.3982	
BW	4.395	2.065	0.05031	
Group	-4.565	8.708	0.6078	

| Basic Statistics - Avg(Stdev)

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Groups	Ctrl_M	KO_M	
VCO2	46.14 (14.207)	53.01 (15.684)	
BW	17.87 (1.226)	20.47 (1.921)	

| Model-based Statistics - Avg VCO2(StErr)

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BW	Ctrl_M	KO_M	p-value	
Overall Mean	52.49 (5.916)	47.92 (5.155)	0.6078	
Group Means	46.15 (5.107)	53.01 (4.568)	0.3317	
Residual Var	143.30952	258.90706		

MMPC Regression Analysis Data Plots.

