

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 = VO2  
 Covariate = BW  
 Grouping Variable = Group

Alpha = 0.05

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18 total cases. Ctrl\_M = 8, KO\_M = 10

R squared = 26.9512, R squared (adjusted) = 17.2113

Residual Standard Error 14.3091 with 15 degrees of freedom

The interaction BW:Group is NOT significant. (p=0.3796)

Source	SumOfSquares	df	MeanSquare	F-ratio	Pvalue
Regression	1133	2	566.6	2.767	0.09486
Residual	3071	15	204.7	.	.

Variables	Estimate	StdError	Pvalue
(Intercept)	-32.52	36.9	0.392
BW	4.56	2.046	0.04154
Group	-6.758	8.626	0.4456

Basic Statistics - Avg(Stdev)

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Groups	Ctrl_M	KO_M
VO2	48.95 (14.218)	54.06 (15.72)
BW	17.87 (1.226)	20.47 (1.921)

Model-based Statistics - Avg VO2(StErr)

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BW	Ctrl_M	KO_M	p-value
Overall Mean	55.54 (5.86)	48.78 (5.106)	0.4456
Group Means	48.96 (5.059)	54.06 (4.525)	0.4633
Residual Var	146.68067	252.5736	

MMPC Regression Analysis Data Plots.

