

Regression Moderation Example

Syntax

```
get file='c:\jason\spsswin\regress\yale1.sav'.
```

* the following three lines give an example of computations needed if macro WAS NOT used.

```
compute cislsum=islsum-12.4228.
```

```
compute cage=age-61.8153.
```

```
compute interact=cage*cislsum.
```

```
compute x=islsum.
```

```
compute z=age.
```

```
compute y=hrs.
```

```
include 'c:\jason\spsswin\regress\simple1.sps'.
```

```
simple1 vars=sex white educ hsuany timeloss totcc physfunc srh .
```

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.498(a)	.248	.218	5.16148

†

a Predictors: (Constant), XZ, SRH, TIMELOSS, WHITE, SEX, EDUC, HSUANY, Z, X, TOTCC, PHYSFUNC

ANOVA(b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2417.414	11	219.765	8.249	.000(a)
	Residual	7326.244	275	26.641		
	Total	9743.659	286			

†

a Predictors: (Constant), XZ, SRH, TIMELOSS, WHITE, SEX, EDUC, HSUANY, Z, X, TOTCC, PHYSFUNC

b Dependent Variable: Y

Model		Unstandardized Coefficients		Standardized Coefficients		t	Sig.
		B	Std. Error	Beta	Std. Error		
1	(Constant)	8.200	3.017			2.718	.007
	SEX	2.019	.725	.152	.054	2.786	.006
	WHITE	2.739	1.187	.125	.054	2.308	.022
	EDUC	-.091	.111	-.046	.056	-.816	.415
	HSUANY	-.610	.779	-.043	.055	-.782	.435
	TIMELOSS	-.047	.043	-.058	.053	-1.092	.276
	TOTCC	.116	.269	.031	.072	.431	.666
	PHYSFUNC	.712	1.745	.032	.077	.408	.684
	SRH	-7.923	2.072	-.298	.078	-3.823	.000
	X	-.518	.148	-.204	.058	-3.512	.001
	Z	-.058	.027	-.137	.063	-2.175	.031
	XZ	.004	.009	.025	.054	.459	.646

a Dependent Variable: Y

Correct Standardized Slope for XZ
 .023

Unstandardized Simple Slopes for X

b
 at low Z: -.58
 at mean Z: -.52
 at high Z: -.46

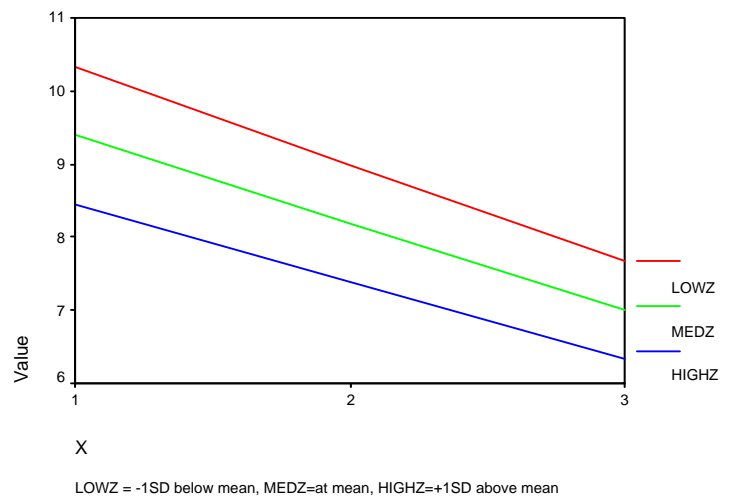
Standardized Simple Slopes for X

beta
 at low Z: -.23
 at mean Z: -.20
 at high Z: -.18

Significance

	SE	t-value	p-value
at low Z:	.21	-2.76	.006
at mean Z:	.15	-3.51	.001
at high Z:	.18	-2.51	.013

Simple Slopes for Y on X at Values of Z



*** NOTE: You would not examine or report simple slopes if the interaction is not significant, as is the case in this example ($b_{xz} = .646$, ns).