OUTPUT A: SAS

The REG Procedure Model: MODEL1 Dependent Variable: satis1

Number of Observations Read 330

Number of Observations Used 330

Analysis of Variance

Source	DF		Mean Square	F Value	Pr > F
Model	1	33.28219	33.28219	87.04	<.0001
Error	328	125.41369	0.38236		
Corrected Total	329	158.69588			

Root MSE 0.61835 **R-Square** 0.2097

Dependent Mean 3.75939 **Adj R-Sq** 0.2073

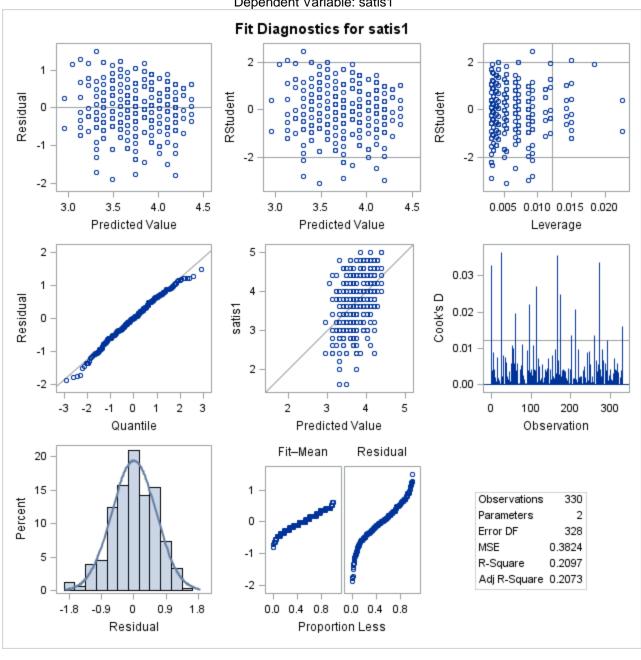
Coeff Var 16.44817

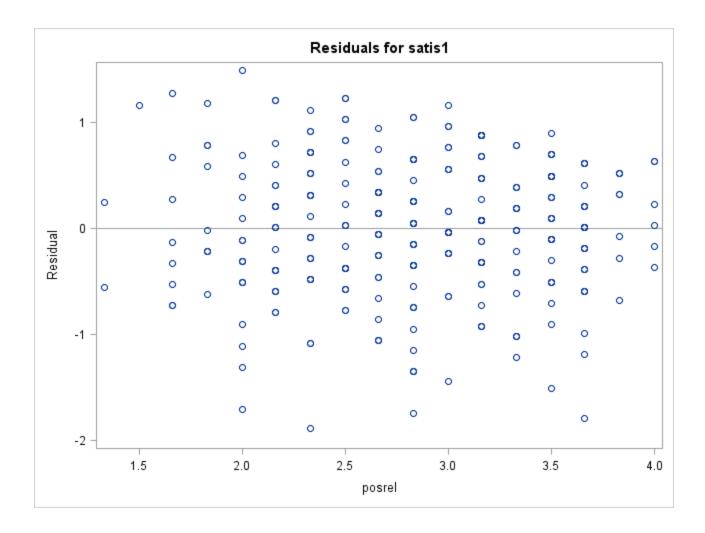
Parameter Estimates

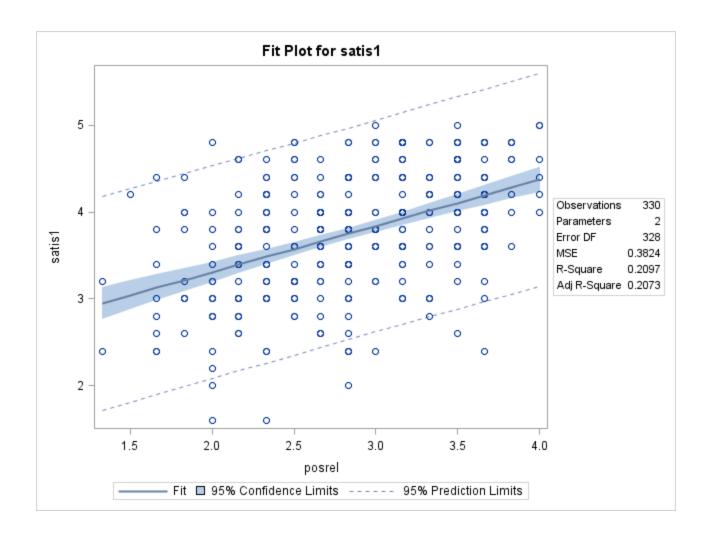
Variable	DF		Standard Error	t Value	Pr > t	Standardized Estimate		_
Intercept	1	2.24622	0.16572	13.55	<.0001	0	1.92021	2.57223
posrel	1	0.53076	0.05689	9.33	<.0001	0.45796	0.41884	0.64267

The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: satis1







OUTPUT A: SPSS

regression/statistics defaults ci/dep=satis1/method=enter posrel.

Regression

Variables Entered/Removed^a

	Variables	Variables							
Model	Entered	Removed	Method						
1	posrel ^b		Enter						

- a. Dependent Variable: satis1
- b. All requested variables entered.

Model Summary

			•	
			Adjusted R	Std. Error of the
Model	R	R Square	Square	Estimate
1	.458 ^a	.210	.207	.61835

a. Predictors: (Constant), posrel

$\textbf{ANOVA}^{\textbf{a}}$

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	33.282	1	33.282	87.044	.000 ^b
	Residual	125.414	328	.382		
	Total	158.696	329			

- a. Dependent Variable: satis1
- b. Predictors: (Constant), posrel

Coefficients^a

		Unstandardize	ed Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	2.246	.166		13.554	.000
	posrel	.531	.057	.458	9.330	.000

Coefficients^a

		95.0% Confidence Interval for B			
Model		Lower Bound	Upper Bound		
1	(Constant)	1.920	2.572		
	posrel	.419	.643		

a. Dependent Variable: satis1

OUTPUT B: SAS

The REG Procedure Model: MODEL1 Dependent Variable: satis1

Number of Observations Read 330

Number of Observations Used 330

Analysis of Variance

Source	DF		Mean Square	F Value	Pr > F
Model	3	47.11953	15.70651	45.89	<.0001
Error	326	111.57635	0.34226		
Corrected Total	329	158.69588			

Root MSE 0.58503 **R-Square** 0.2969

Dependent Mean 3.75939 **Adj R-Sq** 0.2904

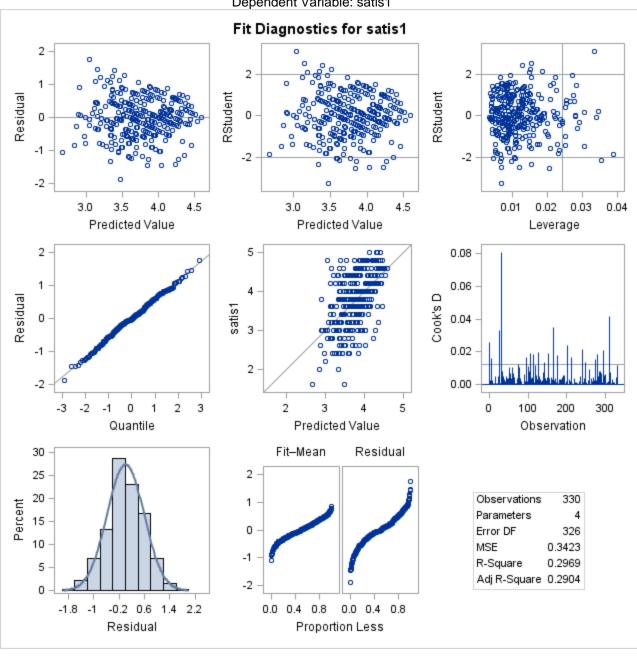
Coeff Var 15.56179

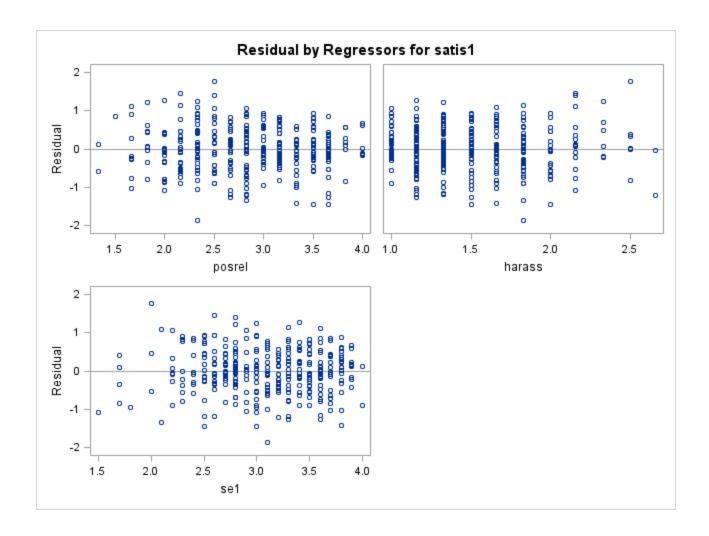
Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	95% Con Lim	
Intercept	1	1.47888	0.30890	4.79	<.0001	0	0.87119	2.08658
posrel	1	0.47230	0.05544	8.52	<.0001	0.40752	0.36323	0.58137
harass	1	-0.14514	0.08997	-1.61	0.1077	-0.07784	-0.32212	0.03185
se1	1	0.37292	0.06399	5.83	<.0001	0.27588	0.24703	0.49881

The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: satis1





OUTPUT B: SPSS

regression/statistics defaults ci/dep=satis1/method=enter posrel harass sel.

Regression

Variables Entered/Removed^a

1 0.1 10.1 10.1 10.1 10.1 10.1 10.1 10.								
	Variables	Variables						
Model	Entered	Removed	Method					
1	se1, posrel,		Enter					

- a. Dependent Variable: satis1
- b. All requested variables entered.

Model Summary

 									
		Adjusted R		Std. Error of the					
Model	R	R Square	Square	Estimate					
1	.545 ^a	.297	.290	.58503					

a. Predictors: (Constant), se1, posrel, harass

$\textbf{ANOVA}^{\textbf{a}}$

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	47.120	3	15.707	45.891	.000 ^b
	Residual	111.576	326	.342		
	Total	158.696	329			

- a. Dependent Variable: satis1
- b. Predictors: (Constant), se1, posrel, harass

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.479	.309		4.788	.000
	posrel	.472	.055	.408	8.519	.000
	harass	145	.090	078	-1.613	.108
	se1	.373	.064	.276	5.828	.000

Coefficients^a

		Occiniolonio	
_		95.0% Confiden	ce Interval for B
Model		Lower Bound	Upper Bound
1	(Constant)	.871	2.087
	posrel	.363	.581
	harass	322	.032
	se1	.247	.499

a. Dependent Variable: satis1

OUTPUT C: SAS

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Model and Variables

Model: 4

Y: LIKING

X: PROTEST

M: RESPAPPR

Sample size:

129

OUTCOME VARIABLE:

RESPAPPR

Model Summary

R	R-sq	MSE	\mathbf{F}	df1	df2	р
0.4992	0.2492	1.3753	42.1550	1.0000	127.0000	0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.8841	0.1831	21.2078	0.0000	3.5217	4.2466
PROTEST	1.4397	0.2217	6.4927	0.0000	1.0009	1.8785

OUTCOME VARIABLE:

LIKING

R 0.4959	R-sq 0.2459	MSE 0.8441	F 20.5483	df1 2.0000	df2 126.0000	p 0.0000		
Model								
constant PROTEST RESPAPPR	coeff 3.7473 -0.1007 0.4024	se 0.3058 0.2005 0.0695	t 12.2553 -0.5023 5.7884	p 0.0000 0.6163 0.0000	LLCI 3.1422 -0.4975 0.2648	ULCI 4.3524 0.2960 0.5400		

OUTCOME VARIABLE:

LIKING

Model Summary

R 0.2131	R-sq 0.0454	MSE 1.0601	F 6.0439	df1 1.0000	df2 127.0000	p 0.0153			
Model									
constant PROTEST	coeff 5.3102 0.4786	se 0.16083 0.1947	t 3.0244 2.4584	p 0.0000 0.0153	LLCI 4.9921 0.0934	ULCI 5.6284 0.8639			

****** TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y *********

Total effect of X on Y

Effect	se	t	p	LLCI	ULCI
0.4786	0.1947	2.4584	0.0153	0.0934	0.8639

Direct effect of X on Y

Effect	se	t	p	LLCI	ULCI
-0.1007	0.2005	-0.5023	0.6163	-0.4975	0.2960

Indirect effect(s) of X on Y:

	Effect	BootSE	BootLLCI	BootULCI
RESPAPPR	0.5793	0.1508	0.3218	0.9010

Normal theory test for indirect effect(s):

	Effect	SE	${f Z}$	p
RESPAPPR	0.5793	0.1350	4.2924	0.0000

Level of confidence for all confidence intervals in output:
95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

OUTPUT C: SPSS

******	**** PROCESS	Procedure	e for SPSS V	ersion 3.1	*****	*****
	citten by And ation availa					es3
************ Model : 4 Y : lik X : pro	test	*****	*****	*****	*****	*****
Sample Size: 129						
************** OUTCOME VARI respappr	**************************************	*****	******	******	*****	*****
Model Summar R .4992	R-sq .2492	MSE 1.3753		df1 1.0000	df2 127.0000	p .0000.
Model constant protest	coeff 3.8841 1.4397	se .1831 .2217	t 21.2078 6.4927	p .0000 .0000	LLCI 3.5217 1.0009	ULCI 4.2466 1.8785
************** OUTCOME VARI	**************************************	*****	******	*****	*****	****
Model Summar R .4959	R-sq .2459	MSE .8441		df1 2.0000	df2 126.0000	p.0000
Model constant protest respappr	coeff 3.7473 1007 .4024	se .3058 .2005	t 12.2553 5023 5.7884	p .0000 .6163 .0000	LLCI 3.1422 4975 .2648	ULCI 4.3524 .2960 .5400
************** OUTCOME VARI	**************************************	** TOTAL 1	EFFECT MODEL	*******	*****	****
Model Summar R .2131	R-sq	MSE 1.0601	F 6.0439	df1 1.0000	df2 127.0000	
protest	coeff 5.3102 .4786	.1608 .1947	2.4584	.0000	.0934	5.6284
^ ^ ^ ^ ^ * * * * * * * * * * * * * * * * * * *	*** TOTAL, DI	KECT, AND	INDIKECT EF	FECTS OF X	ON I ^^***	

Total effect of	f X on Y				
Effect	se	t	р	LLCI	ULCI
.4786	.1947	2.4584	.0153	.0934	.8639
Direct effect	of X on Y				
Effect	se	t	р	LLCI	ULCI
1007	.2005	5023	.6163	4975	.2960

Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI respappr .5793 .1518 .3097 .9060

Normal theory test for indirect effect(s):

Effect se Z p respappr .5793 .1350 4.2924 .0000

******************* ANALYSIS NOTES AND ERRORS ***************

Level of confidence for all confidence intervals in output: 95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

OUTPUT D: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 4

Y: FAIL2

X: HARASS

M: SE2

Covariates:

SE1 FAIL1

Sample size:

330

OUTCOME VARIABLE:

SE2

Model Summary

R R-sq MSE F df1 df2 p 0.5450 0.2971 0.2224 45.9259 3.0000 326.0000 0.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 2.0280
 0.2412
 8.4095
 0.0000
 1.5536
 2.5024

 HARASS
 -0.2728
 0.0717
 -3.8025
 0.0002
 -0.4139
 -0.1317

Model

	coeff	se	t	p	LLCI	ULCI
SE1	0.4879	0.0536	9.1081	0.0000	0.3825	0.5933
FAIL1	-0.1010	0.0606	-1.6661	0.0967	-0.2202	0.0182

OUTCOME VARIABLE:

FAIL2

Model Summary

R R-sq MSE F df1 df2 p 0.4059 0.1648 0.2105 16.0276 4.0000 325.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.0934	0.2588	8.0900	0.0000	1.5843	2.6025
HARASS	0.0196	0.0713	0.2754	0.7832	-0.1207	0.1599
SE2	-0.2175	0.0539	-4.0375	0.0001	-0.3235	-0.1115
SE1	-0.0672	0.0584	-1.1517	0.2503	-0.1820	0.0476
FAIL1	0.2307	0.0592	3.8966	0.0001	0.1142	0.3471

OUTCOME VARIABLE:

FAIL2

Model Summary

R R-sq MSE F df1 df2 p 0.3505 0.1229 0.2203 15.2219 3.0000 326.0000 0.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.6523
 0.2400
 6.8842
 0.0000
 1.1801
 2.1245

Model

	coeff	se	t	p	LLCI	ULCI
HARASS	0.0790	0.0714	1.1060	0.2695	-0.0615	0.2194
SE1	-0.1733	0.0533	-3.2513	0.0013	-0.2782	-0.0685
FAIL1	0.2526	0.0603	4.1886	0.0000	0.1340	0.3713

****** TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y ********

Total effect of X on Y

Effect se t p LLCI ULCI 0.0790 0.0714 1.1060 0.2695 -0.0615 0.2194

Direct effect of X on Y

Effect se t p LLCI ULCI 0.0196 0.0713 0.2754 0.7832 -0.1207 0.1599

Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

SE2 0.0593 0.0225 0.0207 0.1092

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

OUTPUT D: SPSS

Run MATRIX procedure:

****** PROCESS Procedure for SPSS Version 3.00 **********

Written by Andrew F. Hayes, Ph.D. www.afhaves.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3

Model : 4

Y : fail2 X : harass M : se2

Covariates:

sel fail1

Sample

Size: 330

OUTCOME VARIABLE:

se2

Model Summary

	1					
R	R-sq	MSE	F	df1	df2	р
.5450	.2971	.2224	45.9259	3.0000	326.0000	.0000
Model						
HOGCI						
	coeff	se	t	р	LLCI	ULCI
constant	2.0280	.2412	8.4095	.0000	1.5536	2.5024
harass	2728	.0717	-3.8025	.0002	4139	1317
se1	.4879	.0536	9.1081	.0000	.3825	.5933
fail1	1010	.0606	-1.6661	.0967	2202	.0182

OUTCOME VARIABLE:

fail2

Model Summary

	-		df2 325.0000	-
Model				

Mode.

	coeff	se	t	р	LLCI	ULCI
constant	2.0934	.2588	8.0900	.0000	1.5843	2.6025
harass	.0196	.0713	.2754	.7832	1207	.1599
se2	2175	.0539	-4.0375	.0001	3235	1115
se1	0672	.0584	-1.1517	.2503	1820	.0476
fail1	.2307	.0592	3.8966	.0001	.1142	.3471

OUTCOME VARIABLE:

fail2

Model Summary

	R	R-sq				-	
	.3505	.1229	.2203	15.221	9 3.0000	326.0000	.0000
Model							
		coeff	se	t	р	LLCI	ULCI
consta	ant	1.6523	.2400	6.8842	.0000	1.1801	2.1245
harass	3	.0790	.0714	1.1060	.2695	0615	.2194
se1		1733	.0533	-3.2513	.0013	2782	0685
fail1		.2526	.0603	4.1886	.0000	.1340	.3713
*****	******	** TOTAL, DI	RECT, AND	INDIRECT :	EFFECTS OF X	X ON Y ****	*****
		of X on Y					
E	Effect	se	t		p LLC:		
	.0790	.0714	1.1060	.269	50615	5 .2194	
		of X on Y					
E		se	t		L -	I ULCI	
	.0196	.0713	.2754	.783	2120	7 .1599	
Indire	ect effe	ect(s) of X	on Y:				
1110110		t Boots		LCI Boot	ULCT		
se2		.022					
202	• 003	• • • • • • • • • • • • • • • • • • • •	.02	•			
****************** ANALYSIS NOTES AND ERRORS **************							

Level of confidence for all confidence intervals in output: 95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

----- END MATRIX -----

OUTPUT E: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 4

Y: INTEREST

X: PRONO

M1: COMM

M2: DIFF

Sample size:

231

OUTCOME VARIABLE:

COMM

Model Summary

R	R-sq	MSE	${f F}$	df1	df2	p
0.3005	0.0903	1.5324	22.7252	1.0000	229.0000	0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.1160	0.11352	7.4589	0.0000	2.8924	3.3396
PRONO	0.7769	0.1630	4.7671	0.0000	0.4558	1.0980

OUTCOME VARIABLE:

DIFF

Model Summary

R R-sq MSE F df1 df2 p

 $0.0636 \quad 0.0040 \quad 1.6769 \quad 0.9298 \quad 1.0000 \quad 229.0000 \quad 0.3359$

Model

	coeff	se	t	p	LLCI	ULCI
constant	4.9412	0.1187	41.6247	0.0000	4.7073	5.1751
PRONO	-0.1644	0.1705	-0.9643	0.3359	-0.5003	0.1715

OUTCOME VARIABLE:

INTEREST

Model Summary

R R-sq MSE F df1 df2 p 0.4390 0.1927 1.9696 18.0666 3.0000 227.0000 0.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 0.5156
 0.4634
 1.1125
 0.2671
 -0.3976
 1.4287

 PRONO
 -0.0976
 0.1938
 -0.5038
 0.6149
 -0.4795
 0.2843

 COMM
 0.5342
 0.0753
 7.0949
 0.0000
 0.3858
 0.6826

 DIFF
 0.1328
 0.0720
 1.8446
 0.0664
 -0.0091
 0.2746

OUTCOME VARIABLE:

INTEREST

Model Summary

 R
 R-sq
 MSE
 F
 df1
 df2
 p

 0.0954
 0.0091
 2.3965
 2.1032
 1.0000
 229.0000
 0.1484

Model

coeff se t p LLCI ULCI

Model Summary

R	R-sq	MSE	\mathbf{F}	df1	df2	p
constant	2.836	1 0.14191	9.9853	0.0000	2.5565	3.1158
PRONO	0.295	6 0.2038	1.4502	0.1484	-0.1060	0.6971

******* TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y **********

Total effect of X on Y

Effect	se	t	p	LLCI	ULCI
0.2956	0.2038	1.4502	0.1484	-0.1060	0.6971

Direct effect of X on Y

Effect	se	t	p	LLCI	ULCI
-0.0976	0 1938	-0.5038	0.6149	-0 4795	0 2843

Indirect effect(s) of X on Y:

	Effect	BootSE	BootLLCI	BootULCI
TOTAL	0.3932	0.1133	0.1922	0.6344
COMM	0.4150	0.1120	0.2180	0.6544
DIFF	-0.0218	0.0275	-0.0866	0.0258
(C1)	0.4368	0.1174	0.2272	0.6852

Normal theory test for indirect effect(s):

	Effect	se	${f Z}$	p
COMM	0.4150	0.1056	3.9301	0.0001
DIFF	-0.0218	0.0283	-0.7703	0.4411

Specific indirect effect contrast definition(s):

(C1) COMM minus DIFF

Level of confidence for all confidence intervals inoutput:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

Output E: SPSS

Run MATRIX procedure:

Run MATRIX	procedure:					
*****	***** PROCESS	Procedure	e for SPSS Ve	ersion 3.1	*****	*****
	ritten by And tation availa					es3
********** Model : 4 Y : in X : Pr M1 : con M2 : di	oNo mm	*****	*******	******	*****	****
Sample Size: 232						
************ OUTCOME VAR	************* IABLE:	*****	******	******	*****	*****
Model Summa R .3031	R-sq	MSE 1.5279	F 23.2670	df1 1.0000	df2 230.0000	.0000
Model constant ProNo	coeff 3.1160 .7831	se .1133 .1624	t 27.4994 4.8236	p .0000 .0000	LLCI 2.8927 .4632	ULCI 3.3392 1.1030
*********** OUTCOME VAR diff	************* IABLE:	* * * * * * * * * *	******	******	*****	*****
Model Summa R .0594	R-sq	MSE 1.6760	F .8155	df1 1.0000	df2 230.0000	p .3674
Model constant ProNo	coeff 4.9412 1536	se .1187 .1700	t 41.6352 9031	p .0000 .3674	LLCI 4.7073 4886	ULCI 5.1750 .1815
********** OUTCOME VAR interest	************* IABLE:	*****	******	******	*****	*****
Model Summa R .4418	=	MSE 1.9659	F 18.4348	df1 3.0000	df2 228.0000	.0000
Model constant ProNo	coeff .4898 0895	se .4618 .1933	t 1.0607 4630	p .2899 .6438	LLCI 4201 4705	ULCI 1.3996 .2914

comm diff	.5367	.0752 .0718	7.1418 1.9008	.0000 .0586		.6848 .2778
**************************************		* TOTAL EI	FFECT MODEL	******	******	*****
Model Summary R .1000	R-sq .0100	MSE 2.3974	F 2.3217	df1 1.0000	df2 230.0000	p .1290
Model						
constant 2	coeff 2.8361 .3099	.1419	19.9817	.0000	LLCI 2.5565 0908	3.1158
*****	* TOTAL, DIR	ECT, AND	INDIRECT EFF	FECTS OF X	ON Y *****	*****
Total effect of Effect .3099		t 1.5237	p .1290	LLCI 0908		
Direct effect						
Effect 0895	se .1933	t 4630			ULCI .2914	
Indirect effec						
TOTAL .39	209 .028	35 .2 28 .2 320	1950 .6 2171 .6	5399 5594)280		
Normal theo	ory test for	indirect	effect(s):			
comm .420 diff020	.1059	3.97 473	Z 706 .00 367 .46	р 001 513		
Specific india		contrast dinus di		s):		
*****	***** Al	NALYSIS NO	OTES AND ERF	RORS *****	******	****
Level of confi	idence for a	ll confide	ence interva	als in outp	out:	
Number of boot	strap sample	es for pe	ccentile boo	otstrap con	nfidence int	ervals:

----- END MATRIX -----

OUTPUT F: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 6

Y: MCIVIL

X: BINLADEN

M1: STEREO

M2: RTHREAT

Covariates:

SEX AGE IDEO

Sample size:

661

OUTCOME VARIABLE:

STEREO

Model Summary

R R-sq MSE F df1 df2 p 0.3557 0.1265 0.6495 23.7609 4.0000 656.0000 0.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.9045
 0.1322
 14.4084
 0.0000
 1.6449
 2.1640

Model

	coeff	se	t	p	LLCI	ULCI
BINLADEN	0.1358	0.0639	2.1258	0.0339	0.0104	0.2613
SEX	0.0398	0.0635	0.6262	0.5314	-0.0849	0.1644
AGE	0.0504	0.0192	2.6220	0.0089	0.0127	0.0882
IDEO	0.1293	0.0143	9.0483	0.0000	0.1012	0.1574

OUTCOME VARIABLE:

RTHREAT

Model Summary

R R-sq MSE F df1 df2 p 0.6764 0.4575 0.6076 110.4916 5.0000 655.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	-0.2548	0.1467	-1.7369	0.0829	-0.5428	0.0332
BINLADEN	0.0374	0.0620	0.6038	0.5462	-0.0843	0.1592
STEREO	0.7047	0.0378	18.6630	0.0000	0.6306	0.7789
SEX	0.1286	0.0614	2.0938	0.0367	0.0080	0.2492
AGE	0.0451	0.0187	2.4135	0.0161	0.0084	0.0818
IDEO	0.0898	0.0147	6.1257	0.0000	0.0610	0.1186

OUTCOME VARIABLE:

MCIVIL

Model Summary

R R-sq MSE F df1 df2 p 0.6727 0.4526 0.5890 90.1100 6.0000 654.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	0.7165	0.1448	4.9499	0.0000	0.4323	1.0008
BINLADEN	-0.0311	0.0611	-0.5095	0.6106	-0.1510	0.0888
STEREO	0.1057	0.0460	2.2965	0.0220	0.0153	0.1960
RTHREAT	0.5491	0.0385	14.2732	0.0000	0.4736	0.6247
SEX	-0.1001	0.0607	-1.6504	0.0993	-0.2193	0.0190
AGE	-0.0103	0.0185	-0.5599	0.5758	-0.0466	0.0259
IDEO	0.0545	0.0148	3.6696	0.0003	0.0253	0.0836

OUTCOME VARIABLE:

MCIVIL

Model Summary

R R-sq MSE F df1 df2 p 0.3675 0.1351 0.9278 25.6100 4.0000 656.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.5149	0.1580	9.5894	0.0000	1.2047	1.8251
BINLADEN	0.0564	0.0764	0.7380	0.4608	-0.0936	0.2063
SEX	-0.0099	0.0759	-0.1310	0.8958	-0.1589	0.1391
AGE	0.0393	0.0230	1.7085	0.0880	-0.0059	0.0844
IDEO	0.1675	0.0171	9.8053	0.0000	0.1339	0.2010

****** TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y *********

Total effect of X on Y

Effect se t p LLCI ULCI 0.0564 0.0764 0.7380 0.4608 -0.0936 0.2063

Direct effect of X on Y

Effect se t p LLCI ULCI -0.0311 0.0611 -0.5095 0.6106 -0.1510 0.0888

Indirect effect(s) of X on Y:

	Effect	BootSE	BootLLCI	BootULCI
TOTAL	0.0875	0.0465	-0.0015	0.1804
Ind1	0.0144	0.0099	-0.0003	0.0369
Ind2	0.0206	0.0338	-0.0434	0.0885
Ind3	0.0526	0.0250	0.0057	0.1033

Indirect effect key:

Ind1 BINLADEN -> STEREO -> MCIVIL

Ind2 BINLADEN -> RTHREAT -> MCIVIL

Ind3 BINLADEN -> STEREO -> RTHREAT -> MCIVIL

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

Output F: SPSS

Run MATRIX procedure:

******* PROCESS Procedure for SPSS Version 3.00 **********

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2018). www.guilford.com/p/hayes3

Model : 6

Y : mcivil
X : binladen
M1 : stereo
M2 : rthreat

Covariates:

sex age ideo

Sample Size: 661

OUTCOME VARIABLE:

stereo

Model Summa	-	MSE	F	df1	df2	р
.3557	- 1	.6495	23.7609	4.0000	656.0000	.0000
Model						
gongtont	coeff	se	t 14 4004	р	LLCI	ULCI

	COEII	50	C	Р	ППСТ	ОПСТ
constant	1.9045	.1322	14.4084	.0000	1.6449	2.1640
binladen	.1358	.0639	2.1258	.0339	.0104	.2613
sex	.0398	.0635	.6262	.5314	0849	.1644
age	.0504	.0192	2.6220	.0089	.0127	.0882
ideo	.1293	.0143	9.0483	.0000	.1012	.1574

OUTCOME VARIABLE:

rthreat

Model Summary

R	R-sq	MSE	F	df1	df2	р
.6764	.4575	.6076	110.4916	5.0000	655.0000	.0000
Model						
	coeff	se	t	р	LLCI	ULCI
constant	2548	.1467	-1.7369	.0829	5428	.0332
binladen	.0374	.0620	.6038	.5462	0843	.1592
stereo	.7047	.0378	18.6630	.0000	.6306	.7789
sex	.1286	.0614	2.0938	.0367	.0080	.2492
age	.0451	.0187	2.4135	.0161	.0084	.0818
ideo	.0898	.0147	6.1257	.0000	.0610	.1186

OUTCOME VARIABLE:

mcivil

Model Summary								
R	R-sq	MSE	F	df1	df2	р		
.6727	.4526	.5890	90.1100	6.0000	654.0000	.0000		
Model								
Model	coeff	se	t	р	LLCI	ULCI		
constant	.7165	.1448	4.9499	.0000	.4323	1.0008		
binladen	0311	.0611	5095	.6106	1510	.0888		
stereo	.1057	.0460	2.2965	.0220	.0153	.1960		
rthreat	.5491		14.2732	.0000	.4736	.6247		
	1001		-1.6504	.0993	2193	.0190		
sex	0103	.0185	5599	.5758	2193 0466	.0259		
age ideo	.0545	.0148	3.6696	.0003	.0253	.0836		
Ideo	.0343	.0146	3.0090	.0003	.0233	.0030		
*****	****	*** TOTAL E	FFECT MODEL	*****	*****	*****		
OUTCOME VARI								
mcivil								
Model Summar	У							
R	R-sq	MSE	F	df1	df2	р		
.3675	.1351	.9278	25.6100	4.0000	656.0000	.0000		
Model								
	coeff	se	t	р	LLCI	ULCI		
constant	1.5149	.1580	9.5894	.0000	1.2047	1.8251		
binladen	.0564	.0764	.7380	.4608	0936	.2063		
sex	0099	.0759	1310	.8958	1589	.1391		
age	.0393	.0230	1.7085	.0880	0059	.0844		
ideo	.1675	.0171	9.8053	.0000	.1339	.2010		
******	** TOTAL, D	IRECT, AND	INDIRECT EF	FECTS OF X	ON Y *****	*****		
Total effect	of X on Y							
Effect	se	t	р	LLCI	ULCI			
.0564	.0764	.7380	.4608	0936	.2063			
D'								
Direct effec								
Effect	se	t	p	LLCI	ULCI			
0311	.0611	5095	.6106	1510	.0888			
Indirect eff	oat(a) of V	on V.						
	fect Boo		LLCI Boot	пт ст				
				1798				
				0373				
				0895				
Ind3 .	0526 .0	0248 .	0050 .	1021				
Indirect effect key:								
Indl binlade	-	stereo	-> mciv	i 1				
Ind2 binlade		rthreat	-> mciv					
Ind3 binlade		stereo	-> mciv		mcivil			
IIIdo DIIIIdde		30100	, 10111	/	III O I V I I			
****************** ANALYSIS NOTES AND ERRORS ****************								

Level of confidence for all confidence intervals in output:

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

----- END MATRIX -----

OUTPUT G: SAS

The REG Procedure Model: MODEL1 Dependent Variable: crave2

Number of Observations Read 168

Number of Observations Used 168

Analysis of Variance

Source	DF	Sum of Squares		F Value	Pr > F
Model	5	42.32144	8.46429	11.63	<.0001
Error	162	117.88427	0.72768		
Corrected Total	167	160.20571			

Root MSE 0.85304 **R-Square** 0.2642

Dependent Mean 2.11429 **Adj R-Sq** 0.2415

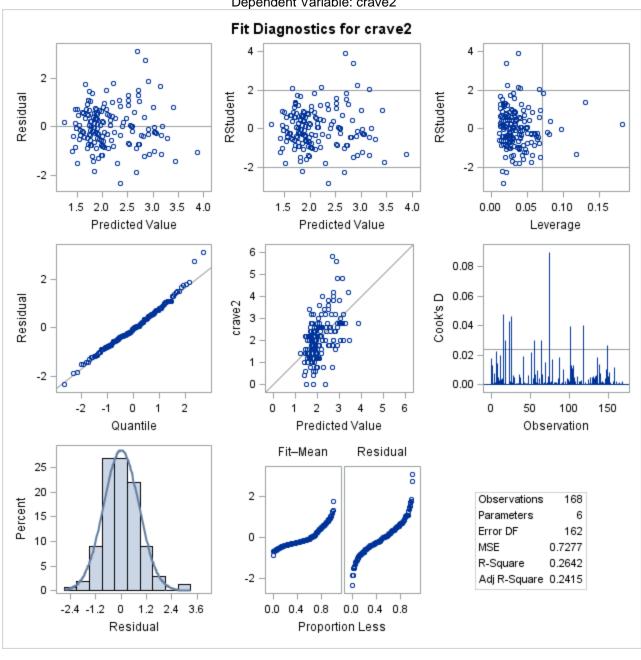
Coeff Var 40.34658

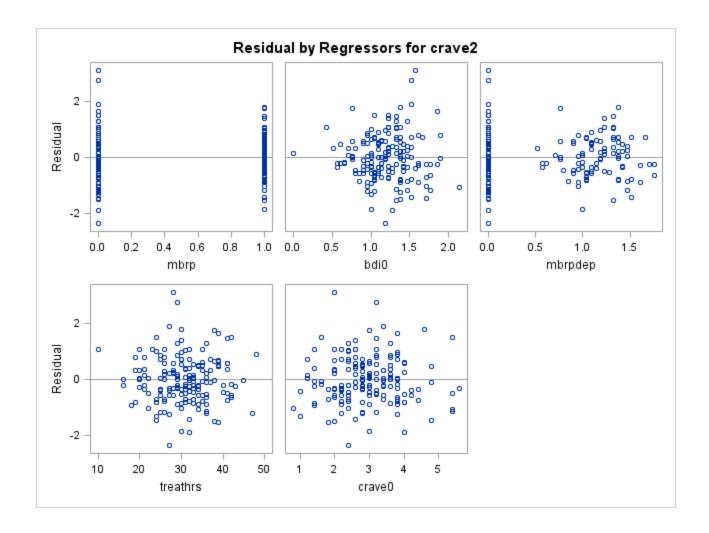
Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.03847	0.47010	2.21	0.0286
mbrp	1	0.58724	0.52413	1.12	0.2642
bdi0	1	1.12208	0.27620	4.06	<.0001
mbrpdep	1	-0.94845	0.42346	-2.24	0.0265
treathrs	1	-0.01767	0.01028	-1.72	0.0875
crave0	1	0.19204	0.07347	2.61	0.0098

The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: crave2





OUTPUT G: SPSS

Variables Entered/Removed^a

	Variables	Variables	
Model	Entered	Removed	Method
		Removed	Metriod
1	CRAVE0:		
	Baseline		
	craving,		
	mbrpdep,		
	TREATHRS:		
	Hours of		
	therapy, BDI0:		
	Beck		Enter
	Depression		
	Inventory		
	baseline, MBRP:		
	Therapy as		
	usual (0) or		
	MBRP therapy		
	(1) ^b		

a. Dependent Variable: CRAVE2: Craving at two month follow-up

b. All requested variables entered.

Model Summary

			Adjusted R	Std. Error of the
Model	R	R Square	Square	Estimate
1	.514 ^a	.264	.241	.8530

a. Predictors: (Constant), CRAVE0: Baseline craving, mbrpdep, TREATHRS: Hours of therapy, BDI0: Beck Depression Inventory baseline, MBRP: Therapy as usual (0) or MBRP therapy (1)

$ANOVA^a$

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	42.321	5	8.464	11.632	.000 ^b

Residual	117.884	162	.728	1
Total	160.206	167		

a. Dependent Variable: CRAVE2: Craving at two month follow-up

b. Predictors: (Constant), CRAVE0: Baseline craving, mbrpdep, TREATHRS: Hours of therapy,

BDI0: Beck Depression Inventory baseline, MBRP: Therapy as usual (0) or MBRP therapy (1)

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.038	.470		2.209	.029
	MBRP: Therapy as usual (0) or MBRP therapy (1)	.587	.524	.299	1.120	.264
	BDI0: Beck Depression Inventory baseline	1.122	.276	.366	4.063	.000
	mbrpdep	948	.423	598	-2.240	.026
	TREATHRS: Hours of therapy	018	.010	120	-1.719	.088
	CRAVE0: Baseline craving	.192	.073	.183	2.614	.010

a. Dependent Variable: CRAVE2: Craving at two month follow-up

OUTPUT H: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 1

Y: CRAVE2

X: MBRP

W: BDI0

Covariates:

TREATHRS CRAVEO

Sample size:

168

OUTCOME VARIABLE:

CRAVE2

Model Summary

R R-sq MSE F df1 df2 p 0.5140 0.2642 0.7277 11.6319 5.0000 162.0000 0.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.0385
 0.4701
 2.2090
 0.0286
 0.1102
 1.9668

Model

	coeff	se	t	p	LLCI	ULCI
MBRP	0.5872	0.5241	1.1204	0.2642	-0.4478	1.6222
BDI0	1.1221	0.2762	4.0625	0.0001	0.5767	1.6675
Int_1	-0.9485	0.4235	-2.2398	0.0265	-1.7847	-0.1122
TREATHRS	-0.0177	0.0103	-1.7190	0.0875	-0.0380	0.0026
CRAVE0	0.1920	0.0735	2.6138	0.0098	0.0470	0.3371

Product terms key:

Int_1 : MBRP x BDI0

Test(s) of highest order unconditional interactions:

	R2-chng	F	df1	df2	p
X*W	0.0228	5.0166	1.0000	162.0000	0.0265

Focal predict: MBRP (X)

Mod var: BDI0 (W)

Conditional effects of the focal predictor at values of the moderator(s):

BDI0	Effect	se	t	p	LLCI	ULCI
0.8772	-0.2447	0.1922	-1.2733	0.2047	-0.6243	0.1348
1.1962	-0.5473	0.1375	-3.9818	0.0001	-0.8188	-0.2759
1.5153	-0.8500	0.1933	-4.3973	0.0000	-1.2317	-0.4683

Moderator value(s) defining Johnson-Neyman significance region(s):

Value	% below	% above
0.9681	21.4286	78.5714

Conditional effect of focal predictor at values of the moderator:

BDI0	Effect	se	t	p	LLCI	ULCI
0.0000	0.5872	0.5241	1.1204	0.2642	-0.4478	1.6222
0.1070	0.4858	0.4806	1.0108	0.3136	-0.4632	1.4347
0.2140	0.3843	0.4373	0.8787	0.3809	-0.4793	1.2479
0.3210	0.2828	0.3946	0.7167	0.4746	-0.4964	1.0620
0.4280	0.1813	0.3525	0.5144	0.6077	-0.5147	0.8773
0.5350	0.0798	0.3112	0.2565	0.7979	-0.5348	0.6944
0.6420	-0.0217	0.2713	-0.0798	0.9365	-0.5574	0.5141
0.7490	-0.1231	0.2334	-0.5276	0.5985	-0.5840	0.3377
0.8560	-0.2246	0.1986	-1.1312	0.2596	-0.6167	0.1675
0.9630	-0.3261	0.1688	-1.9318	0.0551	-0.6595	0.0072
0.9681	-0.3309	0.1676	-1.9747	0.0500	-0.6618	0.0000
1.0700	-0.4276	0.1472	-2.9047	0.0042	-0.7183	-0.1369
1.1770	-0.5291	0.1377	-3.8435	0.0002	-0.8009	-0.2573
1.2840	-0.6306	0.1426	-4.4220	0.0000	-0.9122	-0.3490
1.3910	-0.7321	0.1607	-4.5553	0.0000	-1.0494	-0.4147
1.4980	-0.8335	0.1882	-4.4288	0.0000	-1.2052	-0.4619
1.6050	-0.9350	0.2216	-4.2186	0.0000	-1.3727	-0.4973
1.7120	-1.0365	0.2587	-4.0063	0.0001	-1.5474	-0.5256
1.8190	-1.1380	0.2981	-3.8178	0.0002	-1.7266	-0.5494
1.9260	-1.2395	0.3389	-3.6571	0.0003	-1.9088	-0.5702
2.0330	-1.3410	0.3808	-3.5216	0.0006	-2.0929	-0.5890
2.1400	-1.4424	0.4234	-3.4072	0.0008	-2.2784	-0.6064

Data for visualizing the conditional effect of the focal predictor:

MBRPBDI0CRAVE20.00000.87722.04561.00000.87721.80090.00001.19622.4037

MBRP	BD10	CRAVE2
1.0000	1.1962	1.8563
0.0000	1.5153	2.7617
1.0000	1.5153	1.9117

Level of confidence for all confidence intervals in output:

95.0000

W values in conditional tables are the mean and +/- SD from the mean

OUTPUT H: SPSS

Run MATRIX procedure:

******** PROCESS Procedure for SPSS Version 3.00 ***********

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2018). www.guilford.com/p/hayes3

Model : 1

Y : crave2 X : mbrp W : bdi0

Covariates:

treathrs crave0

Sample

Size: 168

OUTCOME VARIABLE:

crave2

Model Summary

	-		df2 162.0000	-
Model				

	coeff	se	t	р	LLCI	ULCI
constant	1.0385	.4701	2.2090	.0286	.1102	1.9668
mbrp	.5872	.5241	1.1204	.2642	4478	1.6222
bdi0	1.1221	.2762	4.0625	.0001	.5767	1.6675
Int 1	9485	.4235	-2.2398	.0265	-1.7847	1122
treathrs	0177	.0103	-1.7190	.0875	0380	.0026
crave0	.1920	.0735	2.6138	.0098	.0470	.3371

Product terms key:

Int_1 : mbrp x bdi0

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p X*W .0228 5.0166 1.0000 162.0000 .0265

Focal predict: mbrp (X)
Mod var: bdi0 (W)

Conditional effects of the focal predictor at values of the moderator(s):

bdi0	Effect	se	t	р	LLCI	ULCI
.8772	2447	.1922	-1.2733	.2047	6243	.1348
1.1963	5473	.1375	-3.9818	.0001	8188	2759
1.5153	8500	.1933	-4.3973	.0000	-1.2317	4683

Moderator value(s) defining Johnson-Neyman significance region(s):

Value % below % above

.9681 21.4286 78.5714

Conditional	effect of foca	l predictor	at values	of the mod	derator:	
bdi0	Effect	se	t	р	LLCI	ULCI
.0000	.5872	.5241	1.1204	.2642	4478	1.6222
.1070	.4858	.4806	1.0108	.3136	4632	1.4347
.2140	.3843	.4373	.8787	.3809	4793	1.2479
.3210	.2828	.3946	.7167	.4746	4964	1.0620
.4280	.1813	.3525	.5144	.6077	5147	.8773
.5350	.0798	.3112	.2565	.7979	5348	.6944
.6420	0217	.2713	0798	.9365	5574	.5141
.7490	1231	.2334	5276	.5985	5840	.3377
.8560	2246	.1986	-1.1312	.2596	6167	.1675
.9630	3261	.1688	-1.9318	.0551	6595	.0072
.9681	3309	.1676	-1.9747	.0500	6618	.0000
1.0700	4276	.1472	-2.9047	.0042	7183	1369
1.1770	5291	.1377	-3.8435	.0002	8009	 2573
1.2840	6306	.1426	-4.4220	.0000	9122	3490
1.3910	7321	.1607	-4.5553	.0000	-1.0494	4147
1.4980	8335	.1882	-4.4288	.0000	-1.2052	4619
1.6050	9350	.2216	-4.2186	.0000	-1.3727	4973
1.7120	-1.0365	.2587	-4.0063	.0001	-1.5474	 5256
1.8190	-1.1380	.2981	-3.8178	.0002	-1.7266	5494
1.9260	-1.2395	.3389	-3.6571	.0003	-1.9088	5702
2.0330	-1.3410	.3808	-3.5216	.0006	-2.0929	5890
2.1400	-1.4424	.4234	-3.4072	.0008	-2.2784	6064

Data for visualizing the conditional effect of the focal predictor: Paste text below into a SPSS syntax window and execute to produce plot.

```
DATA LIST FREE/
       bdi0 crave2 .
  mbrp
BEGIN DATA.
             .8772
                     2.0456
    .0000
                      1.8009
    1.0000
              .8772
                      2.4037
    .0000
            1.1963
             1.1963
    1.0000
                      1.8563
    .0000
            1.5153
                     2.7617
    1.0000
            1.5153
                      1.9117
END DATA.
GRAPH/SCATTERPLOT=
     WITH crave2 BY
bdi0
                             mbrp
```

****************** ANALYSIS NOTES AND ERRORS ****************

Level of confidence for all confidence intervals in output: 95.0000

W values in conditional tables are the mean and \pm SD from the mean.

---- END MATRIX ----

OUTPUT I: SAS

******* PROCESS Procedure for SAS Version 3.0 ***************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 1

Y: CRAVE2

X: BDI0

W: MBRP

Covariates:

TREATHRS CRAVEO

Sample size:

168

OUTCOME VARIABLE:

CRAVE2

Model Summary

R R-sq MSE F df1 df2 p 0.5140 0.2642 0.7277 11.6319 5.0000 162.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.0385	0.4701	2.2090	0.0286	0.1102	1.9668
BDI0	1.1221	0.2762	4.0625	0.0001	0.5767	1.6675

Model

	coeff	se	t	p	LLCI	ULCI
MBRP	0.5872	0.5241	1.1204	0.2642	-0.4478	1.6222
Int_1	-0.9485	0.4235	-2.2398	0.0265	-1.7847	-0.1122
TREATHRS	-0.0177	0.0103	-1.7190	0.0875	-0.0380	0.0026
CRAVE0	0.1920	0.0735	2.6138	0.0098	0.0470	0.3371

Product terms key:

Int_1 : BDI0 x MBRP

Test(s) of highest order unconditional interactions:

	R2-chng	F	df1	df2	p
X*W	0.0228	5.0166	1.0000	162.0000	0.0265

Focal predict: BDI0 (X)

Mod var: MBRP (W)

Conditional effects of the focal predictor at values of the moderator(s):

 MBRP
 Effect
 se
 t
 p
 LLCI
 ULCI

 0.0000
 1.1221
 0.2762
 4.0625
 0.0001
 0.5767
 1.6675

 1.0000
 0.1736
 0.3281
 0.5291
 0.5974
 -0.4744
 0.8216

Level of confidence for all confidence intervals in output:

95.0000

OUTPUT I: SPSS

Run MATRIX procedure:

**************** PROCE

****** PROCESS Procedure for SPSS Version 3.00 **********

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2018). www.guilford.com/p/hayes3

Model : 1

Y : crave2 X : bdi0 W : mbrp

Covariates:

treathrs crave0

Sample Size: 168

OUTCOME VARIABLE:

crave2

Model Summary

_						
R	R-sq	MSE	F	df1	df2	р
.5140	.2642	.7277	11.6319	5.0000	162.0000	.0000

Model

	coeff	se	t	р	LLCI	ULCI
constant	1.0385	.4701	2.2090	.0286	.1102	1.9668
bdi0	1.1221	.2762	4.0625	.0001	.5767	1.6675
mbrp	.5872	.5241	1.1204	.2642	4478	1.6222
Int_1	9485	.4235	-2.2398	.0265	-1.7847	1122
treathrs	0177	.0103	-1.7190	.0875	0380	.0026
crave0	.1920	.0735	2.6138	.0098	.0470	.3371

Product terms key:

Int_1 : bdi0 x mbrp

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p X*W .0228 5.0166 1.0000 162.0000 .0265

Focal predict: bdi0 (X)
Mod var: mbrp (W)

Conditional effects of the focal predictor at values of the moderator(s):

ULCI	LLCI	р	t	se	Effect	mbrp
1.6675	.5767	.0001	4.0625	.2762	1.1221	.0000
. 8216	4744	. 5974	. 5291	. 3281	.1736	1.0000

****************** ANALYSIS NOTES AND ERRORS ****************

Level of confidence for all confidence intervals in output:

----- END MATRIX -----

OUTPUT J: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 14

Y: PERFORM

X: DYSFUNC

M: NEGTONE

W: NEGEXP

Covariates:

D1 D2 D3

Sample size:

60

OUTCOME VARIABLE:

NEGTONE

Model Summary

R R-sq MSE F df1 df2 p 0.5026 0.2526 0.2213 4.6462 4.0000 55.0000 0.0027

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 -0.2057
 0.1305
 -1.5760
 0.1208
 -0.4672
 0.0559

Model

	coeff	se	t	p	LLCI	ULCI
DYSFUNC	0.6095	0.1668	3.6546	0.0006	0.2753	0.9437
D1	0.3487	0.1715	2.0332	0.0469	0.0050	0.6923
D2	0.2951	0.2122	1.3906	0.1700	-0.1302	0.7204
D3	0.2507	0.1663	1.5078	0.1373	-0.0825	0.5840

OUTCOME VARIABLE:

PERFORM

Model Summary

R R-sq MSE F df1 df2 p 0.5937 0.3524 0.2006 4.0428 7.0000 52.0000 0.0013

Model

	coeff	se	t	p	LLCI	ULCI
constant	-0.1754	0.1305	-1.3444	0.1847	-0.4373	0.0864
DYSFUNC	0.3729	0.1808	2.0622	0.0442	0.0100	0.7357
NEGTONE	-0.4886	0.1377	-3.5485	0.0008	-0.7649	-0.2123
NEGEXP	-0.0221	0.1176	-0.1875	0.8520	-0.2581	0.2140
Int_1	-0.4498	0.2451	-1.8353	0.0722	-0.9417	0.0420
D1	0.1815	0.1720	1.0556	0.2960	-0.1635	0.5266
D2	0.0841	0.2099	0.4004	0.6905	-0.3372	0.5053
D3	0.2816	0.1648	1.7087	0.0935	-0.0491	0.6123

Product terms key:

Int_1 : NEGTONE x NEGEXP

Test(s) of highest order unconditional interactions:

R2-chng F df1 df2 p M*W 0.0419 3.3684 1.0000 52.0000 0.0722

Focal predict: NEGTONE (M)

Mod var: NEGEXP (W)

Conditional effects of the focal predictor at values of the moderator(s):

NEGEXP	Effect	se	t	p	LLCI	ULCI
-0.5308	-0.2498	0.2196	-1.1379	0.2604	-0.6904	0.1907
-0.0600	-0.4616	0.1434	-3.2188	0.0022	-0.7494	-0.1738
0.6000	-0.7585	0.1633	-4.6451	0.0000	-1.0862	-0.4308

Data for visualizing the conditional effect of the focal predictor:

NEGTONE	NEGEXP	PERFORM
-0.4500	-0.5308	0.1258
-0.0350	-0.5308	0.0222
0.5224	-0.5308	-0.1171
-0.4500	-0.0600	0.2108
-0.0350	-0.0600	0.0192
0.5224	-0.0600	-0.2381
-0.4500	0.6000	0.3298
-0.0350	0.6000	0.0150
0.5224	0.6000	-0.4078

****** OIRECT AND INDIRECT EFFECTS OF X ON Y ****************

Direct effect of X on Y

Effect se t p LLCI ULCI 0.3729 0.1808 2.0622 0.0442 0.0100 0.7357

Conditional indirect effects of X on Y:

INDIRECT EFFECT:

DYSFUNC -> NEGTONE -> PERFORM

BootULCI	BootLLCI	BootSE	Effect	NEGEXP
0.1830	-0.4393	0.1517	-0.1523	-0.5308
-0.0571	-0.5451	0.1250	-0.2813	-0.0600
-0.1472	-0.8083	0.1690	-0.4623	0.6000

Index of moderated mediation:

Index BootSE BootLLCI BootULCI

NEGEXP -0.2742 0.1768 -0.7025 -0.0234

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

W values in conditional tables are the 16th, 50th, and 84th percentiles

NOTE: Some bootstrap samples had to be replaced. The number of such replacements was:

OUTPUT J: SPSS

Run MATRIX procedure:

******** PROCESS Procedure for SPSS Version 3.00 **********

Written by Andrew F. Hayes, Ph.D. www.afhayes.com

Documentation available in Hayes (2018). www.guilford.com/p/hayes3

Model : 14

Y : perform
X : dysfunc
M : negtone
W : negexp

Covariates:

d1 d2 d3

Sample Size: 60

OUTCOME VARIABLE:

negtone

	Summary R .5026	R-sq .2526	MSE .2213	F 4.6462	df1 4.0000	df2 55.0000	.002
Model							
		coeff	se	t	р	LLCI	ULCI
consta	nt	2057	.1305	-1.5760	.1208	4672	.0559
dysfun	С	.6095	.1668	3.6546	.0006	.2753	.9437
d1		.3487	.1715	2.0332	.0469	.0050	.6923
d2		.2951	.2122	1.3906	.1700	1302	.7204
d3		.2507	.1663	1.5078	.1373	0825	.5840

OUTCOME VARIABLE:

perform

Model Summar R .5937	R-sq .3524	MSE .2006		df1 7.0000	df2 52.0000	p .0013
Model						
	coeff	se	t	р	LLCI	ULCI
constant	1754	.1305	-1.3444	.1847	4373	.0864
dysfunc	.3729	.1808	2.0622	.0442	.0100	.7357
negtone	4886	.1377	-3.5485	.0008	7649	2123
negexp	0221	.1176	1875	.8520	2581	.2140
Int 1	4498	.2451	-1.8353	.0722	9417	.0420
d1	.1815	.1720	1.0556	.2960	1635	.5266
d2	.0841	.2099	.4004	.6905	3372	.5053
d3	.2816	.1648	1.7087	.0935	0491	.6123

```
Product terms key:
Int 1 : negtone x negexp
Test(s) of highest order unconditional interaction(s):
      R2-chng F df1 df2
                                 1.0000 52.0000
      .0419
                                                            .0722
M*W
                    3.3684
    Focal predict: negtone (M)
           Mod var: negexp
Conditional effects of the focal predictor at values of the moderator(s):

        Effect
        se
        t
        p
        LLCI
        ULCI

        -.2498
        .2196
        -1.1379
        .2604
        -.6904
        .1907

        -.4616
        .1434
        -3.2188
        .0022
        -.7494
        -.1738

        -.7585
        .1633
        -4.6451
        .0000
        -1.0862
        -.4308

     negexp
     -.5308
     -.0600
      .6000
******** OIRECT AND INDIRECT EFFECTS OF X ON Y **************
Direct effect of X on Y
                  se t p LLCI
.1808 2.0622 .0442 .0100
                                                                    ULCI
.7357
     Effect se
      .3729
Conditional indirect effects of X on Y:
INDIRECT EFFECT:
dysfunc -> negtone -> perform
     negexp    Effect    BootSE    BootLLCI    BootULCI
-.5308    -.1523     .1497     -.4365     .1726
     -.5308
                             .1497 -.4365 .1726
.1249 -.5472 -.0569
                -.2813
-.4623
     -.0600
                              .1249
.1683
      .6000
                                         -.8113
                                                       -.1543
      Index of moderated mediation:
            Index BootSE BootLLCI BootULCI
                        .1727 -.6833 -.0243
           -.2742
negexp
******************* ANALYSIS NOTES AND ERRORS ******************
Level of confidence for all confidence intervals in output:
  95.0000
Number of bootstrap samples for percentile bootstrap confidence intervals:
  10000
W values in conditional tables are the 16th, 50th, and 84th percentiles.
---- END MATRIX ----
```

OUTPUT K: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 7

Y: USE4

X: MBRP

M: CRAVE2

W: BDI0

Covariates:

CRAVEO TREATHRS

Sample size:

168

OUTCOME VARIABLE:

CRAVE2

Model Summary

R R-sq MSE F df1 df2 p 0.5140 0.2642 0.7277 11.6319 5.0000 162.0000 0.0000

Model

coeff se t p LLCI ULCI

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.0385	0.4701	2.2090	0.0286	0.1102	1.9668
MBRP	0.5872	0.5241	1.1204	0.2642	-0.4478	1.6222
BDI0	1.1221	0.2762	4.0625	0.0001	0.5767	1.6675
Int_1	-0.9485	0.4235	-2.2398	0.0265	-1.7847	-0.1122
CRAVE0	0.1920	0.0735	2.6138	0.0098	0.0470	0.3371
TREATHRS	-0.0177	0.0103	-1.7190	0.0875	-0.0380	0.0026

Product terms key:

Int_1 : MBRP x BDI0

Test(s) of highest order unconditional interactions:

	R2-chng	F	df1	df2	p
X*W	0.0228	5.0166	1.0000	162.0000	0.0265

Focal predict: MBRP (X)

Mod var: BDI0 (W)

Conditional effects of the focal predictor at values of the moderator(s):

BD10	Effect	se	t	p	LLCI	ULCI
0.9020	-0.2683	0.1850	-1.4500	0.1490	-0.6336	0.0971
1.1900	-0.5414	0.1375	-3.9384	0.0001	-0.8129	-0.2699
1.5180	-0.8525	0.1941	-4.3923	0.0000	-1.2358	-0.4692

OUTCOME VARIABLE:

USE4

Model Summary

R R-sq MSE F df1 df2 p 0.7304 0.5335 0.2105 46.6070 4.0000 163.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.1298	0.2150	5.2545	0.0000	0.7052	1.5544
MBRP	0.0926	0.0773	1.1979	0.2327	-0.0601	0.2453
CRAVE2	0.4810	0.0402	11.9547	0.0000	0.4015	0.5604
CRAVE0	-0.0884	0.0397	-2.2246	0.0275	-0.1668	-0.0099
TREATHRS	-0.0199	0.0056	-3.5720	0.0005	-0.0309	-0.0089

****** DIRECT AND INDIRECT EFFECTS OF X ON Y ****************

Direct effect of X on Y

Effect se t p LLCI ULCI 0.0926 0.0773 1.1979 0.2327 -0.0601 0.2453

Conditional indirect effects of X on Y:

INDIRECT EFFECT:

MBRP -> CRAVE2 -> USE4

BootULCI	BootLLCI	BootSE	Effect	BD10
0.0179	-0.2858	0.0756	-0.1290	0.9020
-0.1122	-0.4445	0.0856	-0.2604	1.1900
-0.1770	-0.7073	0.1365	-0.4100	1.5180

Index of moderated mediation:

Index BootSE BootLLCI BootULCI

BDI0 -0.4562 0.2162 -0.9372 -0.0890

************ ANALYSIS NOTES AND ERRORS *********************

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

W values in conditional tables are the 16th, 50th, and 84th percentiles

OUTPUT K: SPSS

Run MATRIX procedure: ****** PROCESS Procedure for SPSS Version 3.00 ********** Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.quilford.com/p/hayes3 **************** Model : 7 Y : use4 X : mbrp M : crave2 W : bdi0 Covariates: crave0 treathrs Sample Size: 168 ***************** OUTCOME VARIABLE: crave2 Model Summary R R-sq MSE F df1 df2 p .5140 .2642 .7277 11.6319 5.0000 162.0000 .0000 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.0385
 .4701
 2.2090
 .0286
 .1102
 1.9668

 mbrp
 .5872
 .5241
 1.1204
 .2642
 -.4478
 1.6222

 bdi0
 1.1221
 .2762
 4.0625
 .0001
 .5767
 1.6675

 1.1221
 .2762
 4.0625
 .0001
 .5767

 -.9485
 .4235
 -2.2398
 .0265
 -1.7847

 .1920
 .0735
 2.6138
 .0098
 .0470

 -.0177
 .0103
 -1.7190
 .0875
 -.0380

 .2762 Int 1 -.1122 crave0 .3371 .0026 Product terms key: Int 1 : mbrp x bdi0 Test(s) of highest order unconditional interaction(s): R2-chng F df1 df2 p .0228 5.0166 1.0000 162.0000 .0265 X*WFocal predict: mbrp (X) Mod var: bdi0 (W) Conditional effects of the focal predictor at values of the moderator(s):
 se
 t
 p
 LLCI
 ULCI

 .1850
 -1.4500
 .1490
 -.6336
 .0971

 .1375
 -3.9384
 .0001
 -.8129
 -.2699

 .1941
 -4.3923
 .0000
 -1.2358
 -.4692
 bdi0 Effect -.2683 .9020 -.5414 1.1900

-.8525

OUTCOME VARIABLE: use4

Model Summar R .7304	y R-sq .5335	MSE .2105	F 46.6070	df1 4.0000	df2 163.0000	p .0000	
Model							
<pre>constant mbrp crave2 crave0 treathrs</pre>	coeff 1.1298 .0926 .4810 0884 0199	.0397	t 5.2545 1.1979 11.9547 -2.2246 -3.5720 RECT EFFECTS	P.0000.2327.0000.0275.0005	LLCI .7052 0601 .4015 1668 0309	ULCI 1.5544 .2453 .5604 0099 0089	
Direct effec	t of X on Y						
Effect .0926	se .0773	t 1.1979	p .2327	LLCI 0601	ULCI .2453		
Conditional indirect effects of X on Y:							
INDIRECT EFF	ECT: -> crave2	2 ->	use4				

mbrp	->	crave2	->	use4		
bdi0	E	ffect	BootSE	BootLL	CI BootU	LCI
.9020	_	.1290	.0770	28	.0	183
1.1900	-	.2604	.0862	44	581	090
1.5180	-	.4100	.1367	70	801	767

Index of moderated mediation:

	Index	BootSE	BootLLCI	BootULCI
bdi0	4562	.2172	9463	0934

Level of confidence for all confidence intervals in output: 95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

----- END MATRIX -----

OUTPUT L: SAS

****** PROCESS Procedure for SAS Version 3.0 ****************

Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com

Documentation available in Hayes (2018) www.guilford.com/p/hayes3

Model and Variables

Model: 4

Y: LIKING

X: COND

M: RESPAPPR

Sample size:

129

Coding of categorical X variable for analysis:

COND	X1	X2
0	0	0
1	1	0
2	0	1

OUTCOME VARIABLE:

RESPAPPR

Model Summary

R R-sq MSE F df1 df2 p 0.5106 0.2607 1.3649 22.2190 2.0000 126.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.8841	0.1825	21.2881	0.0000	3.5231	4.2452
X1	1.2612	0.2550	4.9456	0.0000	0.7565	1.7659
X2	1.6103	0.2522	6.3842	0.0000	1.1111	2.1095

OUTCOME VARIABLE:

LIKING

Model Summary

R R-sq MSE F df1 df2 p 0.5031 0.2531 0.8427 14.1225 3.0000 125.0000 0.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.7103	0.3074	12.0711	0.0000	3.1020	4.3187
X1	-0.0037	0.2190	-0.0169	0.9865	-0.4371	0.4297
X2	-0.2202	0.2280	-0.9658	0.3360	-0.6715	0.2310
RESPAPPR	0.4119	0.0700	5.8844	0.0000	0.2734	0.5504

OUTCOME VARIABLE:

LIKING

Model Summary

R R-sq MSE F df1 df2 p 0.2151 0.0463 1.0676 3.0552 2.0000 126.0000 0.0506

Model

coeff se t p LLCI ULCI

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.3102	0.1614	32.9083	0.0000	4.9909	5.6296
X1	0.5158	0.2255	2.2870	0.0239	0.0695	0.9621
X2	0.4431	0.2231	1.9863	0.0492	0.0016	0.8845

******* TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y *******

Relative total effects of X on Y:

 Effect
 se
 t
 p
 LLCI
 ULCI

 X1
 0.5158
 0.2255
 2.2870
 0.0239
 0.0695
 0.9621

 X2
 0.4431
 0.2231
 1.9863
 0.0492
 0.0016
 0.8845

Omnibus test of total effect of X on Y:

R2-chng F df1 df2 p 0.0463 3.0552 2.0000 126.0000 0.0506

Relative direct effects of X on Y

 Effect
 se
 t
 p
 LLCI
 ULCI

 X1
 -0.0037
 0.2190
 -0.0169
 0.9865
 -0.4371
 0.4297

 X2
 -0.2202
 0.2280
 -0.9658
 0.3360
 -0.6715
 0.2310

Omnibus test of direct effect of X on Y:

R2-chng F df1 df2 p 0.0087 0.7286 2.0000 125.0000 0.4846

Relative indirect effects of X on Y

COND -> RESPAPPR -> LIKING

Effect BootSE BootLLCI BootULCI

X1	0.5195	0.1509	0.2471	0.8401
X2	0.6633	0.1657	0.3593	1.0059

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

10000

OUTPUT L: SPSS Run MATRIX procedure: ****** PROCESS Procedure for SPSS Version 3.00 ********** Written by Andrew F. Hayes, Ph.D. www.afhaves.com Documentation available in Hayes (2018). www.quilford.com/p/hayes3 **************** Model : 7 Y : use4 X : mbrp M : crave2 W : bdi0 Covariates: crave0 treathrs Sample Size: 168 ***************** OUTCOME VARIABLE: crave2 Model Summary R R-sq MSE F df1 df2 .5140 .2642 .7277 11.6319 5.0000 162.0000 .0000 Model se t .4701 2.2090 coeff p .0286 р ULCI LLCI 1.0385 .1102 1.9668 constant -.4478 .5872 .5241 1.1204 .2642 1.6222 .2762 bdi0 1.1221 4.0625 .0001 .5767 1.6675 Int 1 -.9485 -2.2398 .0265 -1.7847 .4235 -.1122 crave0 .1920 .0735 .0098 2.6138 .0470 .3371 .0103 -1.7190 treathrs -.0177 .0875 -.0380 .0026 Product terms key: Int 1 : mbrp x bdi0 Test(s) of highest order unconditional interaction(s): R2-chng F df1 df2 .0228 1.0000 162.0000 5.0166 X*W.0265 Focal predict: mbrp (X) Mod var: bdi0 (W)

Conditional effects of the focal predictor at values of the moderator(s):

bdi0	Effect	se	t	р	LLCI	ULCI
.9020	2683	.1850	-1.4500	.1490	6336	.0971
1.1900	5414	.1375	-3.9384	.0001	8129	2699
1.5180	8525	.1941	-4.3923	.0000	-1.2358	4692

OUTCOME VARIABLE: use4

Model Summar R .7304	y R-sq .5335	MSE .2105	F 46.6070	df1 4.0000	df2 163.0000	p.0000	
Model							
<pre>constant mbrp crave2 crave0 treathrs</pre>	coeff 1.1298 .0926 .4810 0884 0199	.0397	t 5.2545 1.1979 11.9547 -2.2246 -3.5720 RECT EFFECTS	P.0000.2327.0000.0275.0005	LLCI .7052 0601 .4015 1668 0309	ULCI 1.5544 .2453 .5604 0099 0089	
Direct effec	t of X on Y						
Effect .0926	se .0773	t 1.1979	p .2327	LLCI 0601	ULCI .2453		
Conditional indirect effects of X on Y:							
INDIRECT EFF	ECT: -> crave2	2 ->	use4				

mbrp	->	crave2	->	use4		
bdi0	E	ffect	BootSE	BootLL	CI BootU	LCI
.9020	_	.1290	.0770	28	.0	183
1.1900	-	.2604	.0862	44	581	090
1.5180	-	.4100	.1367	70	801	767

Index of moderated mediation:

	Index	BootSE	BootLLCI	BootULCI
bdi0	4562	.2172	9463	0934

Level of confidence for all confidence intervals in output: 95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals: 10000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

----- END MATRIX -----

OUTPUT M: SAS

****** MEMORE Procedure for SAS Version 1.1 *********** Written by Amanda K. Montoya and Andrew F. Hayes Documentation available at afhayes.com ******************* Variables: Y = PAIN2PAIN1 M = HORMONE2 HORMONE1 Computed Variables: Ydiff = PAIN2 - PAIN1 Mdiff = HORMONE2 - HORMONE1 Mavg = (HORMONE2 + HORMONE1) / 2 centeredSample Size: 20 *********************** Outcome: Ydiff = PAIN2 - PAIN1 Model Effect SE t df р LLCI ULCI 'X' -6.5000 2.0654 -3.1471 19.0000 0.0053 -10.8232 -2.1768 ********************** Outcome: Mdiff = HORMONE2 - HORMONE1

Model

Effect SE t df p LLCI ULCI
'X' -2.2500 0.9173 -2.4528 19.0000 0.0240 -4.1701 -0.3299

Outcome:

Ydiff = PAIN2 - PAIN1

Model Summary

R R-sq MSE F df1 df2 p 0.5554 0.3085 65.9384 3.7918 2.0000 17.0000 0.0435

Model

Effect SE t df p LLCI ULCI
'X' -3.7654 2.0869 -1.8043 17.0000 0.0889 -8.1687 0.6379

Mdiff 1.2154 0.4572 2.6583 17.0000 0.0166 0.2507 2.1801

Mavg -0.1302 0.3209 -0.4057 17.0000 0.6900 -0.8074 0.5470

****** TOTAL, DIRECT, AND INDIRECT EFFECTS *************

Total effect of X on Y

Effect SE t df p LLCI ULCI -6.5000 2.0654 -3.1471 19.0000 0.0053 -10.8232 -2.1768

Direct effect of X on Y

Effect SE t df p LLCI ULCI -3.7654 2.0869 -1.8043 17.0000 0.0889 -8.1687 0.6379

Indirect Effect of X on Y through M

Effect Boot SE BootLLCI BootULCI

Indl -2.7346 1.3262 -5.6979 -0.5390

Indirect effect key
Ind1 X -> Mldiff -> Ydiff

*********** ANALYSIS NOTES AND WARNINGS ***************

Check SAS log for errors. Do not interpret output if errors are found.

Bootstrap confidence interval method: Percentile

Number of samples for bootstrap confidence intervals:

10000

Level of confidence for all confidence intervals in output:

95

	OUTPUT M: SPSS							
Run MATRIX procedu	ıre:							
******	* MEMORE Pr	rocedure fo	r SPSS Vers	ion 1.1 **	*****	****		
	Wr	ritten by A	manda Monto	ya				
	Documentation available at afhayes.com							
******	******	*****	*****	*****	*****	****		
	<pre>Variables: Y = pain2 pain1 M = hormone2 hormone1</pre>							
Mdiff = h	s: pain2 - normone2 - normone2 +		1 lone1 lone1)	/2	Centered			
Sample Size: 20								
**************************************				*****	******	****		
Model Effect 'X' -6.5000	SE 2.0654	t -3.1471	df 19.0000	p .0053	LLCI -10.8233	ULCI -2.1767		
**************************************	******	*****	*****					
Model Effect 'X' -2.2500	SE .9173	t -2.4528	df 19.0000	p .0240	LLCI -4.1701	ULCI 3299		
**************************************				*****	*****	*****		
	R-sq 3085 65.	MSE .9384 3	F .7918 2	df1 .0000 1	df2 .7.0000	p .0435		
'X' -3.7654 Mdiff 1.2154 Mavg1302	.3209	-1.8043 2.6583 4057	17.0000 17.0000 17.0000	.6900		.5470		
**************************************		t	df	р	LLCI 0.8233 -	ULCI		

Direct effect of X on Y

Effect SE t df p LLCI ULCI
-3.7654 2.0869 -1.8043 17.0000 .0889 -8.1689 .6381

Indirect Effect of X on Y through M

Effect BootSE BootLLCI BootULCI

----- END MATRIX -----