

[1] C:\Users\Lenovo\Desktop\\.\.sav

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 3.2 *****

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

Model : 59
Y : ZD
X : ZAQG
M : ZFF
W : _1

Covariates:
Sex_1 Age_1

Sample
Size: 577

OUTCOME VARIABLE:
ZFF

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.3124	.0976	.9103	12.3475	5.0000	571.0000	.000

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.8983	.6117	-1.4685	.1425	-2.0998	.3032
ZAQG	-.2880	.0400	-7.2055	.0000	-.3665	-.2095
_1	.1548	.0803	1.9281	.0543	-.0029	.3125
Int_1	.0336	.0804	.4183	.6759	-.1243	.1916
Sex_1	-.0266	.0802	-.3311	.7407	-.1841	.1310
Age_1	.0632	.0425	1.4870	.1376	-.0203	.1466

Product terms key:

Int_1 : ZAQG x _1

Covariance matrix of regression parameter estimates:

	constant	ZAQG	_1	Int_1	Sex_1	Age_1
constant	.3742	-.0003	-.0006	-.0012	.0025	-.0259
ZAQG	-.0003	.0016	.0003	.0001	.0000	.0000
_1	-.0006	.0003	.0064	.0000	.0001	.0000
Int_1	-.0012	.0001	.0000	.0065	.0003	.0001
Sex_1	.0025	.0000	.0001	.0003	.0064	-.0004

Age_1	-.0259	.0000	.0000	.0001	-.0004	.0018
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Test(s) of highest order unconditional interaction(s):

	R2-chng	F	df1	df2	p
X*W	.0003	.1749	1.0000	571.0000	.6759

Focal predict: ZAQG (X)
Mod var: _1 (W)

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/

ZAQG	_1	ZFF	.
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BEGIN DATA.

-1.0000	-.4773	.2319
.0000	-.4773	-.0722
1.0000	-.4773	-.3763
-1.0000	.0000	.2897
.0000	.0000	.0017
1.0000	.0000	-.2864
-1.0000	.4977	.3500
.0000	.4977	.0787
1.0000	.4977	-.1926

END DATA.

GRAPH/SCATTERPLOT=

ZAQG	WITH	ZFF	BY	_1	.
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OUTCOME VARIABLE:

ZD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.3843	.1477	.8628	14.0844	7.0000	569.0000	.000

Model

	coeff	se	t	p	LLCI	ULCI
constant	.4947	.5967	.8290	.4074	-.6773	1.6667
ZAQG	.1034	.0406	2.5428	.0113	.0235	.1832
ZFF	-.2813	.0407	-6.9048	.0000	-.3614	-.2013
_1	-.0160	.0784	-.2035	.8388	-.1700	.1381
Int_1	.1035	.0817	1.2660	.2060	-.0571	.2641
Int_2	.1737	.0818	2.1231	.0342	.0130	.3344
Sex_1	-.3508	.0781	-4.4904	.0000	-.5042	-.1973
Age_1	-.0232	.0414	-.5599	.5758	-.1046	.0582

Product terms key:

Int_1	:	ZAQG	x	_1
Int_2	:	ZFF	x	_1

Covariance matrix of regression parameter estimates:

	constant	ZAQG	ZFF	_1	Int_1	Int_2
Sex_1	Age_1					
constant	.3561	.0001	.0015	-.0008	-.0010	.0006
	.0024	-.0246				
ZAQG	.0001	.0017	.0005	.0002	.0001	.0000
	.0000	.0000				
ZFF	.0015	.0005	.0017	-.0003	.0000	.0000
	.0000	-.0001				
_1	-.0008	.0002	-.0003	.0062	.0000	-.0001
	.0001	.0001				
Int_1	-.0010	.0001	.0000	.0000	.0067	.0019
	.0002	.0001				
Int_2	.0006	.0000	.0000	-.0001	.0019	.0067
	-.0001	-.0001				
Sex_1	.0024	.0000	.0000	.0001	.0002	-.0001
	.0061	-.0004				
Age_1	-.0246	.0000	-.0001	.0001	.0001	-.0001
	-.0004	.0017				

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

	R2-chng	F	df1	df2	p
X*W	.0024	1.6027	1.0000	569.0000	.2060
M*W	.0068	4.5074	1.0000	569.0000	.0342

Focal predict: ZAQG (X)
Mod var: _1 (W)

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/

ZAQG _1 ZD .

BEGIN DATA.

```

-1.0000    -.4773    -.0503
.0000      -.4773     .0037
1.0000     -.4773     .0576
-1.0000     .0000    -.1073
.0000       .0000    -.0040
1.0000       .0000     .0994
-1.0000     .4977    -.1668
.0000       .4977    -.0119
1.0000     .4977     .1430

```

END DATA.

GRAPH/SCATTERPLOT=

ZAQG WITH ZD BY _1 .

Focal predict: ZFF (M)
Mod var: _1 (W)

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

_1	Effect	se	t	p	LLCI	ULCI
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541	-.4773	-.3642	.0561	-6.4932	.0000	-.4744	-.2
013	.0000	-.2813	.0407	-6.9048	.0000	-.3614	-.2
811	.4977	-.1949	.0579	-3.3632	.0008	-.3087	-.0

There are no statistical significance transition points within the observed range of the moderator found using the Johnson-Neyman method.

Conditional effect of focal predictor at values of the moderator:

	Effect	se	t	p	LLCI	ULCI	
541	-.4773	-.3642	.0561	-6.4932	.0000	-.4744	-.2
507	-.4273	-.3555	.0534	-6.6625	.0000	-.4604	-.2
470	-.3773	-.3469	.0508	-6.8254	.0000	-.4467	-.2
429	-.3273	-.3382	.0485	-6.9748	.0000	-.4334	-.2
384	-.2773	-.3295	.0464	-7.1019	.0000	-.4206	-.2
332	-.2273	-.3208	.0446	-7.1957	.0000	-.4084	-.2
275	-.1773	-.3121	.0431	-7.2445	.0000	-.3968	-.2
211	-.1273	-.3034	.0419	-7.2364	.0000	-.3858	-.2
139	-.0773	-.2948	.0412	-7.1618	.0000	-.3756	-.2
060	-.0273	-.2861	.0408	-7.0153	.0000	-.3662	-.2
972	.0227	-.2774	.0408	-6.7973	.0000	-.3575	-.1
877	.0727	-.2687	.0412	-6.5147	.0000	-.3497	-.1
774	.1227	-.2600	.0421	-6.1794	.0000	-.3427	-.1
663	.1727	-.2513	.0433	-5.8068	.0000	-.3364	-.1
546	.2227	-.2427	.0448	-5.4127	.0000	-.3307	-.1
423	.2727	-.2340	.0467	-5.0117	.0000	-.3257	-.1
294	.3227	-.2253	.0488	-4.6153	.0000	-.3212	-.1
161	.3727	-.2166	.0512	-4.2322	.0000	-.3171	-.1
023	.4227	-.2079	.0538	-3.8680	.0001	-.3135	-.1
882	.4727	-.1992	.0565	-3.5258	.0005	-.3102	-.0

.5227 -.1906 .0594 -3.2071 .0014 -.3073 -.0
739

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/
  ZFF      _1      ZD      .
BEGIN DATA.
  -1.0000   -.4773   .3679
   .0000   -.4773   .0037
   1.0000   -.4773  -.3606
  -1.0000   .0000   .2774
   .0000   .0000  -.0040
   1.0000   .0000  -.2853
  -1.0000   .4977   .1830
   .0000   .4977  -.0119
   1.0000   .4977  -.2068
```

END DATA.

GRAPH/SCATTERPLOT=

ZFF WITH ZD BY _1 .

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

Conditional direct effect(s) of X on Y:

	_1	Effect	se	t	p	LLCI	ULCI
636	-1	-.4773	.0540	.0558	.9664	.3343	-.0557 .1
832	0	.0000	.1034	.0406	2.5428	.0113	.0235 .1
688	1	.4977	.1549	.0580	2.6690	.0078	.0409 .2

Conditional indirect effects of X on Y:

INDIRECT EFFECT:

ZAQG -> ZFF -> ZD

	_1	Effect	BootSE	BootLLCI	BootULCI
	-1	-.4773	.1108	.0309	.0584 .1811
	0	.0000	.0810	.0191	.0475 .1234
	1	.4977	.0529	.0231	.0165 .1072

Pairwise contrasts between conditional indirect effects (Effect1 minus Effect2)

Effect1	Effect2	Contrast	BootSE	BootLLCI	BootULCI
.0810	.1108	-.0297	.0223	-.0786	.0104
.0529	.1108	-.0579	.0384	-.1365	.0166
.0529	.0810	-.0282	.0165	-.0600	.0061

Bootstrap estimates were saved to a file

Map of column names to model coefficients:

	Conseqnt	Antecdnt
COL1	ZFF	constant
COL2	ZFF	ZAQG
COL3	ZFF	_1
COL4	ZFF	Int_1
COL5	ZFF	Sex_1
COL6	ZFF	Age_1
COL7	ZD	constant
COL8	ZD	ZAQG
COL9	ZD	ZFF
COL10	ZD	_1
COL11	ZD	Int_1
COL12	ZD	Int_2
COL13	ZD	Sex_1
COL14	ZD	Age_1

***** BOOTSTRAP RESULTS FOR REGRESSION MODEL PARAMETERS *****

OUTCOME VARIABLE:

ZFF

	Coeff	BootMean	BootSE	BootLLCI	BootULCI
constant	-.8983	-.9082	.6218	-2.1111	.3011
ZAQG	-.2880	-.2910	.0445	-.3811	-.2055
_1	.1548	.1544	.0802	-.0064	.3092
Int_1	.0336	.0323	.0900	-.1471	.2104
Sex_1	-.0266	-.0293	.0803	-.1829	.1278
Age_1	.0632	.0638	.0431	-.0199	.1471

OUTCOME VARIABLE:

ZD

	Coeff	BootMean	BootSE	BootLLCI	BootULCI
constant	.4947	.4936	.6100	-.6913	1.6568
ZAQG	.1034	.0994	.0529	-.0057	.2020
ZFF	-.2813	-.2827	.0412	-.3642	-.2006
_1	-.0160	-.0178	.0783	-.1735	.1310
Int_1	.1035	.0993	.1063	-.1063	.3062
Int_2	.1737	.1739	.0832	.0086	.3395
Sex_1	-.3508	-.3508	.0773	-.5017	-.2000
Age_1	-.0232	-.0232	.0424	-.1053	.0597

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

Level of confidence for all confidence intervals in output:

95.0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

W values in conditional tables are the minimum, the mean, and 1 SD above the mean.

NOTE: One SD below the mean is below the minimum observed in the data for W,
so the minimum measurement on W is used for conditioning instead.

NOTE: The following variables were mean centered prior to analysis:
_1 ZAQG ZFF

NOTE: Variables names longer than eight characters can produce incorrect output.

Shorter variable names are recommended.

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