

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : nPSE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213

Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nPSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.3235	.1046	1.0119	4.3534	8.0000	298.0000	.0001

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.3442	.8037	-.4283	.6687	-1.9258	1.2373
X1	-.5209	.1666	-3.1266	.0019	-.8488	-.1930
X2	.0867	.1465	.5918	.5544	-.2016	.3749
SCInd	.1689	.0824	2.0496	.0413	.0067	.3311
SCInter	.2464	.0923	2.6706	.0080	.0648	.4279
Age	.0322	.0212	1.5159	.1306	-.0096	.0739
Gender	-.1078	.1009	-1.0677	.2865	-.3064	.0909

Edu	-.1363	.0894	-1.5240	.1286	-.3123	.0397
Mus	.0042	.0034	1.2577	.2095	-.0024	.0108

Standardized coefficients

	coeff
X1	-.4965
X2	.0826
SCInd	.1147
SCInter	.1509
Age	.0886
Gender	-.0623
Edu	-.0898
Mus	.0845

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nPSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2670	.0713	1.0426	3.8366	6.0000	300.0000	.00
11							

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.5823	.5643	2.8041	.0054	.4719	2.6928
X1	-.4516	.1678	-2.6913	.0075	-.7817	-.1214
X2	.1760	.1457	1.2076	.2282	-.1108	.4627
Age	.0287	.0215	1.3388	.1817	-.0135	.0710
Gender	-.0671	.1014	-.6613	.5089	-.2667	.1325
Edu	-.1461	.0903	-1.6180	.1067	-.3238	.0316
Mus	.0036	.0034	1.0633	.2885	-.0031	.0103

Standardized coefficients

	coeff
X1	-.4304
X2	.1677
Age	.0792
Gender	-.0388
Edu	-.0963
Mus	.0723

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.4516	.1678	-2.6913	.0075	-.7817	-.1214	-.4304

X2	.1760	.1457	1.2076	.2282	-.1108	.4627	.
1677							

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0429	6.9240	2.0000	300.0000	.0011

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.5209	.1666	-3.1266	.0019	-.8488	-.1930	-.4965
X2	.0867	.1465	.5918	.5544	-.2016	.3749	.0826

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0432	7.1942	2.0000	298.0000	.0009

Relative indirect effects of X on Y

Country	->	SCInd	->	nPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0226	.0221	-.0136	.0731
X2	.0146	.0208	-.0197	.0636

Country	->	SCInter	->	nPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0468	.0303	.0017	.1180
X2	.0747	.0348	.0160	.1499

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0215	.0211	-.0128	.0697
X2	.0139	.0198	-.0187	.0600

Country	->	SCInter	->	nPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0446	.0288	.0017	.1135
X2	.0712	.0329	.0153	.1412

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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X : Country
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M2 : SCInter

Covariates:

Age Gender Edu Mus

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OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843

Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nNSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1975	.0390	.2527	1.5126	8.0000	298.0000	.15
21							

Model	coeff	se	t	p	LLCI	ULCI
constant	.2865	.4017	.7133	.4762	-.5039	1.0770
X1	-.1888	.0833	-2.2673	.0241	-.3527	-.0249
X2	.0446	.0732	.6099	.5424	-.0994	.1887
SCInd	.0074	.0412	.1788	.8582	-.0737	.0884
SCInter	-.0217	.0461	-.4696	.6390	-.1124	.0691
Age	-.0094	.0106	-.8857	.3765	-.0303	.0115
Gender	.0551	.0504	1.0931	.2752	-.0441	.1544
Edu	.0139	.0447	.3113	.7558	-.0741	.1019
Mus	.0003	.0017	.1639	.8699	-.0030	.0036

Standardized coefficients

	coeff
X1	-.3730
X2	.0882
SCInd	.0104
SCInter	-.0275
Age	-.0536
Gender	.0661
Edu	.0190
Mus	.0114

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nNSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1954	.0382	.2513	1.9857	6.0000	300.0000	.0675

Model

	coeff	se	t	p	LLCI	ULCI
constant	.1992	.2770	.7191	.4727	-.3460	.7444
X1	-.1919	.0824	-2.3300	.0205	-.3540	-.0298
X2	.0387	.0715	.5412	.5888	-.1021	.1795
Age	-.0090	.0105	-.8510	.3954	-.0297	.0118
Gender	.0552	.0498	1.1080	.2687	-.0428	.1532
Edu	.0162	.0443	.3650	.7153	-.0711	.1034
Mus	.0003	.0017	.1954	.8452	-.0030	.0036

Standardized coefficients

	coeff
X1	-.3792
X2	.0765
Age	-.0512
Gender	.0661
Edu	.0221
Mus	.0135

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.1919	.0824	-2.3300	.0205	-.3540	-.0298	-.3792
X2	.0387	.0715	.5412	.5888	-.1021	.1795	.0765

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0263	4.1083	2.0000	300.0000	.0174

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.1888	.0833	-2.2673	.0241	-.3527	-.0249	-.3730
X2	.0446	.0732	.6099	.5424	-.0994	.1887	.0882

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0265	4.1152	2.0000	298.0000	.0173

Relative indirect effects of X on Y

Country	->	SCInd	->	nNSE
		Effect		
		BootSE	BootLLCI	BootULCI
X1		.0010	-.0158	.0174
X2		.0006	-.0128	.0143

Country	->	SCInter	->	nNSE
		Effect		
		BootSE	BootLLCI	BootULCI
X1		-.0041	-.0248	.0141
X2		-.0066	-.0394	.0197

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nNSE
		Effect		
		BootSE	BootLLCI	BootULCI
X1		.0019	-.0313	.0346
X2		.0013	-.0257	.0282

Country	->	SCInter	->	nNSE
---------	----	---------	----	------

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0081	.0183	-.0482	.0291
X2	-.0130	.0282	-.0740	.0400

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

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Model : 4
Y : nPSD
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2
p						

.2004 .0401 .4967 2.0910 6.0000 300.0000 .05
42

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	p
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nPSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1992	.0397	.2729	1.5399	8.0000	298.0000	.14
28							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.3467	.4173	-.8307	.4068	-1.1680	.4746
X1	-.1948	.0865	-2.2518	.0251	-.3651	-.0246
X2	-.1446	.0761	-1.9017	.0582	-.2943	.0050
SCInd	.0655	.0428	1.5305	.1270	-.0187	.1497
SCInter	.0371	.0479	.7753	.4388	-.0571	.1314
Age	.0068	.0110	.6160	.5384	-.0149	.0285
Gender	-.0678	.0524	-1.2933	.1969	-.1709	.0354
Edu	.0556	.0464	1.1977	.2320	-.0358	.1470
Mus	.0030	.0017	1.7440	.0822	-.0004	.0065

Standardized coefficients

	coeff
X1	-.3704
X2	-.2750
SCInd	.0887
SCInter	.0454
Age	.0373
Gender	-.0782
Edu	.0731
Mus	.1213

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nPSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1743	.0304	.2737	1.5661	6.0000	300.0000	.15
67							

Model

	coeff	se	t	p	LLCI	ULCI
constant	.0916	.2891	.3167	.7517	-.4774	.6605
X1	-.1790	.0860	-2.0825	.0381	-.3482	-.0099
X2	-.1277	.0747	-1.7106	.0882	-.2746	.0192
Age	.0065	.0110	.5901	.5556	-.0152	.0281
Gender	-.0552	.0520	-1.0617	.2892	-.1574	.0471
Edu	.0567	.0463	1.2250	.2215	-.0344	.1477
Mus	.0029	.0017	1.6904	.0920	-.0005	.0064

Standardized coefficients

coeff

X1	-.3403
X2	-.2428
Age	.0357
Gender	-.0636
Edu	.0745
Mus	.1175

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.1790	.0860	-2.0825	.0381	-.3482	-.0099	-.3403
X2	-.1277	.0747	-1.7106	.0882	-.2746	.0192	-.2428

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0168	2.5950	2.0000	300.0000	.0763

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.1948	.0865	-2.2518	.0251	-.3651	-.0246	-.3704
X2	-.1446	.0761	-1.9017	.0582	-.2943	.0050	-.2750

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0198	3.0683	2.0000	298.0000	.0480

Relative indirect effects of X on Y

Country	->	SCInd	->	nPSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0087		.0101
X2		.0057		.0091

Country	->	SCInter	->	nPSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0071		.0099
X2		.0113		.0139

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nPSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0166	.0192	-.0128	.0633
X2	.0108	.0172	-.0198	.0503

Country	->	SCInter	->	nPSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0134	.0189	-.0149	.0607
X2	.0214	.0265	-.0251	.0808

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
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----- END MATRIX -----

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M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

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1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

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P	.2004	.0401	.4967	2.0910	6.0000	300.0000	.0542

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
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Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

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Mus	-.0029

OUTCOME VARIABLE:

SCInter

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X1	.2956

X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nNSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2113	.0446	.2324	1.7400	8.0000	298.0000	.08
88							

Model

	coeff	se	t	p	LLCI	ULCI
constant	.5789	.3852	1.5029	.1339	-.1791	1.3369
X1	-.1010	.0799	-1.2654	.2067	-.2582	.0561
X2	.1356	.0702	1.9317	.0543	-.0025	.2737
SCInd	-.0475	.0395	-1.2024	.2301	-.1252	.0302
SCInter	-.0791	.0442	-1.7896	.0745	-.1661	.0079
Age	-.0072	.0102	-.7106	.4779	-.0272	.0128
Gender	.0539	.0484	1.1134	.2665	-.0413	.1491
Edu	.0336	.0429	.7837	.4338	-.0508	.1179
Mus	.0011	.0016	.6947	.4878	-.0020	.0043

Standardized coefficients

	coeff
X1	-.2076
X2	.2786
SCInd	-.0695
SCInter	-.1045
Age	-.0429
Gender	.0671
Edu	.0477
Mus	.0482

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nNSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.1732	.0300	.2344	1.5468	6.0000	300.0000	.16
26							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.0149	.2676	-.0558	.9555	-.5415	.5116
X1	-.1224	.0796	-1.5386	.1249	-.2790	.0342

X2	.1075	.0691	1.5558	.1208	-.0285	.2435
Age	-.0061	.0102	-.5983	.5501	-.0261	.0139
Gender	.0419	.0481	.8709	.3845	-.0528	.1365
Edu	.0372	.0428	.8681	.3860	-.0471	.1214
Mus	.0013	.0016	.8137	.4165	-.0019	.0045

Standardized coefficients

	coeff
X1	-.2515
X2	.2209
Age	-.0362
Gender	.0522
Edu	.0528
Mus	.0566

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.1224	.0796	-1.5386	.1249	-.2790	.0342	-.2515
X2	.1075	.0691	1.5558	.1208	-.0285	.2435	.2209

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0266	4.1172	2.0000	300.0000	.0172

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.1010	.0799	-1.2654	.2067	-.2582	.0561	-.2076
X2	.1356	.0702	1.9317	.0543	-.0025	.2737	.2786

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0293	4.5661	2.0000	298.0000	.0111

Relative indirect effects of X on Y

Country	->	SCInd	->	nNSD
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0063	.0083	-.0273	.0055
X2	-.0041	.0078	-.0246	.0065

Country	->	SCInter	->	nNSD
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0150	.0133	-.0466	.0044
X2	-.0240	.0177	-.0633	.0071

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nNSD
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0130	.0172	-.0564	.0113
X2	-.0084	.0161	-.0503	.0137

Country	->	SCInter	->	nNSD
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0309	.0268	-.0939	.0097
X2	-.0493	.0362	-.1280	.0152

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : nAest
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample
Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801

Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nAest

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.3484	.1214	1.0255	5.1461	8.0000	298.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.0535	.8091	-.0661	.9473	-1.6457	1.5387
X1	-.5778	.1677	-3.4447	.0007	-.9079	-.2477
X2	-.0371	.1474	-.2519	.8013	-.3273	.2530
SCInd	.3128	.0830	3.7695	.0002	.1495	.4761
SCInter	.1272	.0929	1.3697	.1718	-.0556	.3100
Age	-.0332	.0214	-1.5560	.1208	-.0753	.0088
Gender	-.0629	.1016	-.6193	.5362	-.2629	.1370
Edu	-.0362	.0900	-.4015	.6883	-.2133	.1410
Mus	.0153	.0034	4.5284	.0000	.0086	.0219

Standardized coefficients

	coeff
X1	-.5419
X2	-.0348
SCInd	.2090
SCInter	.0767
Age	-.0901
Gender	-.0358
Edu	-.0234
Mus	.3013

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nAest

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.2731	.0746	1.0730	4.0290	6.0000	300.0000	.00

07

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.7739	.5725	3.0987	.0021	.6474	2.9004
X1	-.5119	.1702	-3.0072	.0029	-.8468	-.1769
X2	.0285	.1478	.1925	.8475	-.2625	.3194
Age	-.0338	.0218	-1.5504	.1221	-.0766	.0091
Gender	-.0054	.1029	-.0523	.9583	-.2079	.1971
Edu	-.0270	.0916	-.2942	.7688	-.2072	.1533
Mus	.0150	.0034	4.3395	.0000	.0082	.0217

Standardized coefficients

	coeff
X1	-.4801
X2	.0267
Age	-.0915
Gender	-.0031
Edu	-.0175
Mus	.2947

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.5119	.1702	-3.0072	.0029	-.8468	-.1769	-.4801
X2	.0285	.1478	.1925	.8475	-.2625	.3194	.0267

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0358	5.7983	2.0000	300.0000	.0034

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.5778	.1677	-3.4447	.0007	-.9079	-.2477	-.5419
X2	-.0371	.1474	-.2519	.8013	-.3273	.2530	-.0348

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0405	6.8644	2.0000	298.0000	.0012

Relative indirect effects of X on Y

Country	->	SCInd	->	nAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0418	.0346	-.0181	.1182
X2	.0270	.0354	-.0376	.1032

Country	->	SCInter	->	nAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0242	.0233	-.0086	.0821
X2	.0386	.0305	-.0130	.1082

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0392	.0321	-.0170	.1102
X2	.0253	.0330	-.0347	.0966

Country	->	SCInter	->	nAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0227	.0218	-.0082	.0762
X2	.0362	.0285	-.0126	.0997

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
 Y : nPGE
 X : Country
 M1 : SCInd
 M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
42	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nPGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1721	.0296	2.4682	1.1373	8.0000	298.0000	.33

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.0829	1.2552	.8628	.3890	-1.3872	3.5530
X1	-.4467	.2602	-1.7167	.0871	-.9588	.0654
X2	-.1579	.2287	-.6901	.4907	-.6080	.2923
SCInd	.2178	.1287	1.6919	.0917	-.0355	.4711
SCInter	.0771	.1441	.5354	.5928	-.2064	.3607
Age	-.0194	.0331	-.5840	.5597	-.0846	.0459
Gender	-.0849	.1576	-.5384	.5907	-.3951	.2254
Edu	-.0298	.1397	-.2136	.8310	-.3047	.2451
Mus	.0116	.0052	2.2100	.0279	.0013	.0219

Standardized coefficients

	coeff
X1	-.2838
X2	-.1003
SCInd	.0986
SCInter	.0315
Age	-.0355

Gender -.0327
 Edu -.0131
 Mus .1546

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nPGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1396	.0195	2.4774	.9939	6.0000	300.0000	.4295

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.2949	.8699	2.6383	.0088	.5832	4.0067
X1	-.4030	.2586	-1.5580	.1203	-.9119	.1060
X2	-.1156	.2246	-.5148	.6071	-.5577	.3264
Age	-.0195	.0331	-.5898	.5558	-.0847	.0456
Gender	-.0454	.1563	-.2906	.7716	-.3531	.2622
Edu	-.0225	.1392	-.1615	.8718	-.2964	.2515
Mus	.0114	.0052	2.1714	.0307	.0011	.0217

Standardized coefficients

	coeff
X1	-.2560
X2	-.0735
Age	-.0358
Gender	-.0175
Edu	-.0099
Mus	.1518

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.4030	.2586	-1.5580	.1203	-.9119	.1060	-.2560
X2	-.1156	.2246	-.5148	.6071	-.5577	.3264	-.0735

Omnibus test of total effect of X on Y

	R2-chng	F	df1	df2	p
	.0080	1.2251	2.0000	300.0000	.2952

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							

X1	-.4467	.2602	-1.7167	.0871	-.9588	.0654	-.
2838							
X2	-.1579	.2287	-.6901	.4907	-.6080	.2923	-.
1003							

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0096	1.4749	2.0000	298.0000	.2305

Relative indirect effects of X on Y

Country	->	SCInd	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0291	.0325	-.0212	.1062
X2	.0188	.0306	-.0348	.0909

Country	->	SCInter	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0147	.0320	-.0412	.0911
X2	.0234	.0475	-.0677	.1227

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0185	.0205	-.0135	.0665
X2	.0120	.0193	-.0226	.0575

Country	->	SCInter	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0093	.0203	-.0264	.0570
X2	.0149	.0301	-.0436	.0778

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : nNGE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380

Edu .0614
Mus -.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

56

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

nNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2631	.0692	.9039	2.7696	8.0000	298.0000	.00

57

Model

	coeff	se	t	p	LLCI	ULCI
constant	.9409	.7596	1.2387	.2164	-.5540	2.4357
X1	-.2286	.1575	-1.4516	.1477	-.5385	.0813
X2	.3552	.1384	2.5657	.0108	.0827	.6276
SCInd	-.0393	.0779	-.5043	.6144	-.1926	.1140
SCInter	-.1314	.0872	-1.5069	.1329	-.3030	.0402
Age	.0117	.0201	.5819	.5610	-.0278	.0511
Gender	.0658	.0954	.6902	.4906	-.1219	.2536
Edu	.0165	.0845	.1947	.8458	-.1499	.1828
Mus	-.0014	.0032	-.4277	.6692	-.0076	.0049

Standardized coefficients

	coeff
X1	-.2350
X2	.3652
SCInd	-.0288
SCInter	-.0868
Age	.0347
Gender	.0411
Edu	.0117
Mus	-.0293

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

nNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2478	.0614	.9054	3.2717	6.0000	300.0000	.00
39							

Model

	coeff	se	t	p	LLCI	ULCI
constant	.1009	.5259	.1919	.8479	-.9339	1.1358
X1	-.2588	.1564	-1.6551	.0990	-.5665	.0489
X2	.3119	.1358	2.2970	.0223	.0447	.5792
Age	.0138	.0200	.6884	.4917	-.0256	.0532
Gender	.0524	.0945	.5541	.5799	-.1336	.2384
Edu	.0249	.0842	.2959	.7675	-.1407	.1905
Mus	-.0010	.0032	-.3278	.7433	-.0073	.0052

Standardized coefficients

	coeff
X1	-.2661
X2	.3208
Age	.0409
Gender	.0327
Edu	.0177
Mus	-.0224

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.2588	.1564	-1.6551	.0990	-.5665	.0489	-.2661
X2	.3119	.1358	2.2970	.0223	.0447	.5792	.3208

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0425	6.7881	2.0000	300.0000	.0013

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.2286	.1575	-1.4516	.1477	-.5385	.0813	-.2350
X2	.3552	.1384	2.5657	.0108	.0827	.6276	.3652

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0456	7.3037	2.0000	298.0000	.0008

Relative indirect effects of X on Y

Country	->	SCInd	->	nNGE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0052		.0138
X2		-.0034		.0116

Country	->	SCInter	->	nNGE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0250		.0222
X2		-.0398		.0318

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	nNGE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0054		.0142
X2		-.0035		.0120

Country	->	SCInter	->	nNGE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0257		.0222
X2		-.0410		.0317

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iPSE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859

Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045
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Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

iPSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2488	.0619	6.8818	2.4576	8.0000	298.0000	.01
37							

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.0074	2.0959	.9578	.3389	-2.1172	6.1319

X1	-.2335	.4345	-.5374	.5914	-1.0886	.6216
X2	.6540	.3820	1.7122	.0879	-.0977	1.4057
SCInd	.4465	.2149	2.0773	.0386	.0235	.8695
SCInter	.4102	.2406	1.7049	.0893	-.0633	.8836
Age	.0078	.0553	.1408	.8881	-.1011	.1167
Gender	-.1113	.2632	-.4227	.6728	-.6293	.4068
Edu	-.4240	.2332	-1.8177	.0701	-.8830	.0350
Mus	.0013	.0087	.1537	.8779	-.0159	.0186

Standardized coefficients

coeff

X1	-.0874
X2	.2447
SCInd	.1190
SCInter	.0986
Age	.0084
Gender	-.0253
Edu	-.1097
Mus	.0106

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

ipSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1990	.0396	6.9983	2.0624	6.0000	300.0000	.0575

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.8249	1.4620	3.9842	.0001	2.9479	8.7020
X1	-.0960	.4347	-.2208	.8254	-.9514	.7595
X2	.8169	.3775	2.1638	.0313	.0740	1.5599
Age	.0030	.0556	.0539	.9570	-.1065	.1125
Gender	-.0167	.2628	-.0637	.9492	-.5338	.5003
Edu	-.4298	.2340	-1.8373	.0672	-.8903	.0306
Mus	.0003	.0088	.0362	.9711	-.0170	.0176

Standardized coefficients

coeff

X1	-.0359
X2	.3056
Age	.0032
Gender	-.0038
Edu	-.1112
Mus	.0025

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.0960	.4347	-.2208	.8254	-.9514	.7595	-.0359
X2	.8169	.3775	2.1638	.0313	.0740	1.5599	.3056

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0199	3.1103	2.0000	300.0000	.0460

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.2335	.4345	-.5374	.5914	-1.0886	.6216	-.0874
X2	.6540	.3820	1.7122	.0879	-.0977	1.4057	.2447

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0155	2.4635	2.0000	298.0000	.0869

Relative indirect effects of X on Y

Country	->	SCInd	->	iPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0596	.0546	-.0306	.1879
X2	.0386	.0543	-.0571	.1618

Country	->	SCInter	->	iPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0779	.0695	-.0164	.2471
X2	.1244	.0906	-.0275	.3341

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0223	.0205	-.0114	.0702
X2	.0144	.0203	-.0213	.0601

Country	->	SCInter	->	iPSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0291	.0261	-.0061	.0933
X2	.0465	.0340	-.0103	.1242

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iNSE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model						
	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

 OUTCOME VARIABLE:
 SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

 OUTCOME VARIABLE:
 iNSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1911	.0365	4.3347	1.4123	8.0000	298.0000	.19

06

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.5540	1.6634	-.3331	.7393	-3.8275	2.7194
X1	-.5474	.3448	-1.5875	.1135	-1.2261	.1312
X2	.3099	.3031	1.0223	.3075	-.2867	.9065
SCInd	.1450	.1706	.8497	.3962	-.1908	.4807
SCInter	.0287	.1909	.1504	.8806	-.3470	.4045
Age	-.0300	.0439	-.6829	.4952	-.1164	.0564
Gender	.1979	.2089	.9471	.3444	-.2133	.6090
Edu	.1804	.1851	.9747	.3305	-.1839	.5447
Mus	-.0027	.0069	-.3948	.6933	-.0164	.0109

Standardized coefficients

	coeff
X1	-.2615
X2	.1481
SCInd	.0493
SCInter	.0088
Age	-.0414
Gender	.0574
Edu	.0596
Mus	-.0275

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

iNSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1848	.0341	4.3165	1.7673	6.0000	300.0000	.10

55

Model

	coeff	se	t	p	LLCI	ULCI
constant	.1329	1.1482	.1158	.9079	-2.1266	2.3925
X1	-.5226	.3414	-1.5308	.1269	-1.1945	.1492
X2	.3311	.2965	1.1168	.2650	-.2524	.9146
Age	-.0297	.0437	-.6799	.4971	-.1157	.0563
Gender	.2229	.2064	1.0802	.2809	-.1832	.6290
Edu	.1872	.1837	1.0189	.3091	-.1744	.5488
Mus	-.0028	.0069	-.4085	.6832	-.0164	.0108

Standardized coefficients

	coeff
X1	-.2497
X2	.1582
Age	-.0410

Gender	.0646
Edu	.0618
Mus	-.0283

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.5226	.3414	-1.5308	.1269	-1.1945	.1492	-.2497
X2	.3311	.2965	1.1168	.2650	-.2524	.9146	.1582

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0196	3.0442	2.0000	300.0000	.0491

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.5474	.3448	-1.5875	.1135	-1.2261	.1312	-.2615
X2	.3099	.3031	1.0223	.3075	-.2867	.9065	.1481

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0197	3.0468	2.0000	298.0000	.0490

Relative indirect effects of X on Y

Country	->	SCInd	->	iNSE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0194		.0323
X2		.0125		.0271

Country	->	SCInter	->	iNSE
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0055		.0392
X2		.0087		.0582

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iNSE
		Effect		BootSE
				BootLLCI
				BootULCI

X1	.0092	.0153	-.0169	.0456
X2	.0060	.0128	-.0198	.0356

Country -> SCInter -> iNSE

	Effect	BootSE	BootLLCI	BootULCI
X1	.0026	.0187	-.0331	.0442
X2	.0042	.0279	-.0531	.0605

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iPSD
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511

Edu -.0895
Mus -.0782

OUTCOME VARIABLE:
ipSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.1814	.0329	5.3085	1.2681	8.0000	298.0000	.25
97							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-1.4639	1.8408	-.7953	.4271	-5.0864	2.1586
X1	-.6104	.3816	-1.5994	.1108	-1.3614	.1406
X2	-.6060	.3355	-1.8065	.0719	-1.2662	.0542
SCInd	.2472	.1888	1.3096	.1913	-.1243	.6188
SCInter	.1132	.2113	.5355	.5927	-.3027	.5290
Age	.0395	.0486	.8116	.4177	-.0562	.1351
Gender	-.2319	.2312	-1.0031	.3166	-.6869	.2231
Edu	.2310	.2049	1.1279	.2603	-.1721	.6342
Mus	.0118	.0077	1.5379	.1251	-.0033	.0269

Standardized coefficients

	coeff
X1	-.2640
X2	-.2621
SCInd	.0762
SCInter	.0314
Age	.0493
Gender	-.0609
Edu	.0691
Mus	.1074

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:
ipSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.1628	.0265	5.3080	1.3620	6.0000	300.0000	.22
97							

Model

	coeff	se	t	p	LLCI	ULCI
constant	.0472	1.2733	.0370	.9705	-2.4585	2.5528
X1	-.5559	.3786	-1.4683	.1431	-1.3009	.1891
X2	-.5503	.3288	-1.6738	.0952	-1.1974	.0967
Age	.0388	.0485	.8009	.4238	-.0565	.1342
Gender	-.1857	.2288	-.8117	.4176	-.6361	.2646

Edu	.2373	.2038	1.1645	.2452	-.1637	.6382
Mus	.0115	.0077	1.5028	.1339	-.0036	.0266

Standardized coefficients

	coeff
X1	-.2404
X2	-.2380
Age	.0485
Gender	-.0487
Edu	.0710
Mus	.1047

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.5559	.3786	-1.4683	.1431	-1.3009	.1891	-.2404
X2	-.5503	.3288	-1.6738	.0952	-1.1974	.0967	-.2380

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0114	1.7580	2.0000	300.0000	.1742

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.6104	.3816	-1.5994	.1108	-1.3614	.1406	-.2640
X2	-.6060	.3355	-1.8065	.0719	-1.2662	.0542	-.2621

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0133	2.0459	2.0000	298.0000	.1311

Relative indirect effects of X on Y

Country	->	SCInd	->	iPSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0330	.0401	-.0289	.1315
X2	.0214	.0351	-.0429	.0996

Country	->	SCInter	->	iPSD
	Effect	BootSE	BootLLCI	BootULCI

X1	.0215	.0452	-.0550	.1307
X2	.0343	.0664	-.0866	.1810

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iPSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0143	.0173	-.0125	.0567
X2	.0092	.0152	-.0182	.0430

Country	->	SCInter	->	iPSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0093	.0196	-.0240	.0571
X2	.0148	.0287	-.0373	.0787

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iNSD
X : Country
M1 : SCInd
M2 : SCInter

Covariates:
Age Gender Edu Mus

Sample
Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264

Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017
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Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

iNSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1849	.0342	3.1325	1.3191	8.0000	298.0000	.2333

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.0853	1.4140	1.4747	.1413	-.6974	4.8680
X1	-.3104	.2931	-1.0588	.2906	-.8873	.2665
X2	.3387	.2577	1.3143	.1898	-.1684	.8458
SCInd	-.1993	.1450	-1.3743	.1704	-.4847	.0861
SCInter	-.2392	.1623	-1.4738	.1416	-.5587	.0802
Age	-.0292	.0373	-.7833	.4341	-.1027	.0442
Gender	.2939	.1776	1.6551	.0990	-.0556	.6435
Edu	.0606	.1574	.3852	.7004	-.2491	.3703
Mus	.0032	.0059	.5392	.5901	-.0084	.0148

Standardized coefficients

	coeff
X1	-.1746
X2	.1906
SCInd	-.0799
SCInter	-.0865
Age	-.0475
Gender	.1004
Edu	.0236
Mus	.0376

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

iNSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1460	.0213	3.1531	1.0886	6.0000	300.0000	.3691

Model	coeff	se	t	p	LLCI	ULCI
constant	.0844	.9813	.0860	.9315	-1.8468	2.0156
X1	-.3824	.2918	-1.3106	.1910	-.9566	.1918
X2	.2489	.2534	.9823	.3267	-.2498	.7476
Age	-.0261	.0373	-.6994	.4849	-.0996	.0474
Gender	.2487	.1764	1.4101	.1595	-.0984	.5958
Edu	.0679	.1570	.4325	.6657	-.2411	.3770
Mus	.0038	.0059	.6389	.5234	-.0079	.0154

Standardized coefficients

	coeff
X1	-.2152
X2	.1401
Age	-.0425
Gender	.0849
Edu	.0264
Mus	.0446

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.3824	.2918	-1.3106	.1910	-.9566	.1918	-.2152
X2	.2489	.2534	.9823	.3267	-.2498	.7476	.1401

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0149	2.2794	2.0000	300.0000	.1041

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.3104	.2931	-1.0588	.2906	-.8873	.2665	-.1746
X2	.3387	.2577	1.3143	.1898	-.1684	.8458	.1906

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0161	2.4843	2.0000	298.0000	.0851

Relative indirect effects of X on Y

Country -> SCInd -> iNSD

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0266	.0314	-.1056	.0193
X2	-.0172	.0286	-.0873	.0295

Country -> SCInter -> iNSD

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0454	.0431	-.1454	.0251
X2	-.0725	.0605	-.2027	.0379

Partially standardized relative indirect effect(s) of X on Y:

Country -> SCInd -> iNSD

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0150	.0177	-.0594	.0109
X2	-.0097	.0162	-.0499	.0165

Country -> SCInter -> iNSD

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0256	.0239	-.0809	.0143
X2	-.0408	.0337	-.1138	.0213

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iAest
X : Country
M1 : SCInd

M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05

42

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

56

Model						
	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

iAest

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
62	.2370	.0562	7.7472	2.2165	8.0000	298.0000	.02

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.5022	2.2237	-.2258	.8215	-4.8784	3.8740
X1	-.6663	.4610	-1.4452	.1494	-1.5735	.2410
X2	.1894	.4053	.4674	.6406	-.6081	.9870
SCInd	.5750	.2281	2.5211	.0122	.1262	1.0238
SCInter	.2175	.2553	.8519	.3950	-.2849	.7198
Age	.0009	.0587	.0156	.9875	-.1146	.1165
Gender	.0953	.2793	.3411	.7333	-.4544	.6449
Edu	-.0235	.2475	-.0949	.9245	-.5105	.4635
Mus	.0281	.0093	3.0305	.0027	.0099	.0464

Standardized coefficients

	coeff
X1	-.2357
X2	.0670
SCInd	.1449
SCInter	.0494
Age	.0009
Gender	.0204
Edu	-.0057
Mus	.2090

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:
iAest

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1844	.0340	7.8762	1.7601	6.0000	300.0000	.1070

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.7704	1.5510	1.7862	.0751	-.2818	5.8226
X1	-.5482	.4612	-1.1888	.2355	-1.4557	.3593
X2	.3050	.4005	.7616	.4469	-.4832	1.0932
Age	.0002	.0590	.0039	.9969	-.1159	.1164
Gender	.2002	.2788	.7182	.4732	-.3484	.7488
Edu	-.0052	.2482	-.0210	.9833	-.4936	.4832
Mus	.0275	.0093	2.9503	.0034	.0092	.0459

Standardized coefficients

	coeff
X1	-.1939
X2	.1079
Age	.0002
Gender	.0430
Edu	-.0013
Mus	.2047

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.5482	.4612	-1.1888	.2355	-1.4557	.3593	-.1939
X2	.3050	.4005	.7616	.4469	-.4832	1.0932	.1079

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0107	1.6676	2.0000	300.0000	.1904

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.6663	.4610	-1.4452	.1494	-1.5735	.2410	-.2357
X2	.1894	.4053	.4674	.6406	-.6081	.9870	.0670

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0112	1.7735	2.0000	298.0000	.1715

Relative indirect effects of X on Y

Country	->	SCInd	->	iAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0768	.0695	-.0382	.2388
X2	.0497	.0674	-.0722	.1992

Country	->	SCInter	->	iAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0413	.0614	-.0539	.1896
X2	.0659	.0880	-.0853	.2643

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0271	.0246	-.0137	.0843
X2	.0176	.0238	-.0262	.0701

Country	->	SCInter	->	iAest
	Effect	BootSE	BootLLCI	BootULCI
X1	.0146	.0218	-.0193	.0669
X2	.0233	.0312	-.0303	.0933

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Model : 4
Y : iPGE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

ipGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1514	.0229	7.3926	.8741	8.0000	298.0000	.53
87							

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.7723	2.1722	1.2762	.2029	-1.5026	7.0472
X1	-.2774	.4503	-.6161	.5383	-1.1637	.6088
X2	-.2056	.3959	-.5192	.6040	-.9846	.5735
SCInd	.2911	.2228	1.3069	.1923	-.1473	.7296
SCInter	.2458	.2494	.9857	.3251	-.2449	.7365
Age	-.0456	.0574	-.7943	.4276	-.1584	.0673
Gender	-.3078	.2728	-1.1281	.2602	-.8447	.2291
Edu	.1427	.2417	.5904	.5554	-.3330	.6185
Mus	.0155	.0091	1.7120	.0879	-.0023	.0334

Standardized coefficients

	coeff
X1	-.1022
X2	-.0757

SCInd	.0764
SCInter	.0582
Age	-.0485
Gender	-.0688
Edu	.0364
Mus	.1201

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

iPGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.1196	.0143	7.4081	.7261	6.0000	300.0000	.6289

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.1470	1.5042	3.4217	.0007	2.1868	8.1071
X1	-.1919	.4472	-.4290	.6682	-1.0720	.6883
X2	-.1059	.3884	-.2725	.7854	-.8703	.6585
Age	-.0483	.0572	-.8439	.3994	-.1610	.0643
Gender	-.2473	.2703	-.9148	.3610	-.7793	.2847
Edu	.1407	.2407	.5845	.5593	-.3330	.6144
Mus	.0149	.0091	1.6458	.1009	-.0029	.0327

Standardized coefficients

	coeff
X1	-.0707
X2	-.0390
Age	-.0514
Gender	-.0553
Edu	.0358
Mus	.1154

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI
c_ps						
X1	-.1919	.4472	-.4290	.6682	-1.0720	.6883
0707						
X2	-.1059	.3884	-.2725	.7854	-.8703	.6585
0390						

Omnibus test of total effect of X on Y

	R2-chng	F	df1	df2	p
	.0006	.0973	2.0000	300.0000	.9073

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.2774	.4503	-.6161	.5383	-1.1637	.6088	-.1022
X2	-.2056	.3959	-.5192	.6040	-.9846	.5735	-.0757

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0015	.2293	2.0000	298.0000	.7952

Relative indirect effects of X on Y

Country	->	SCInd	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0389	.0459	-.0340	.1524
X2	.0252	.0419	-.0515	.1196

Country	->	SCInter	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0467	.0651	-.0503	.2117
X2	.0745	.0913	-.0831	.2817

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0143	.0169	-.0127	.0554
X2	.0093	.0155	-.0191	.0446

Country	->	SCInter	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0172	.0240	-.0185	.0780
X2	.0275	.0337	-.0310	.1039

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Version 4.2 beta *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2022). www.guilford.com/p/hayes3

Model : 4
Y : iNGE
X : Country
M1 : SCInd
M2 : SCInter

Covariates:

Age Gender Edu Mus

Sample

Size: 307

Coding of categorical X variable for analysis:

Country	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SCInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
Mus	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874

X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
Mus	-.0029

OUTCOME VARIABLE:

SCInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
Mus	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
Mus	-.0782

OUTCOME VARIABLE:

iNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.3217	.1035	6.5957	4.3006	8.0000	298.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	-2.8242	2.0518	-1.3764	.1697	-6.8621	1.2137
X1	-.8556	.4254	-2.0114	.0452	-1.6927	-.0185
X2	.9731	.3739	2.6022	.0097	.2372	1.7089
SCInd	-.0172	.2104	-.0820	.9347	-.4314	.3969
SCInter	-.0467	.2355	-.1981	.8431	-.5102	.4169
Age	.1106	.0542	2.0419	.0420	.0040	.2173

Gender	.6336	.2577	2.4586	.0145	.1265	1.1408
Edu	.2043	.2283	.8946	.3717	-.2451	.6536
Mus	-.0022	.0086	-.2597	.7952	-.0191	.0146

Standardized coefficients
coeff

X1	-.3196
X2	.3635
SCInd	-.0046
SCInter	-.0112
Age	.1194
Gender	.1436
Edu	.0528
Mus	-.0175

***** TOTAL EFFECT MODEL *****

OUTCOME VARIABLE:

iNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.3215	.1034	6.5528	5.7641	6.0000	300.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	-3.1346	1.4147	-2.2157	.0275	-5.9186	-.3506
X1	-.8668	.4206	-2.0606	.0402	-1.6945	-.0390
X2	.9574	.3653	2.6207	.0092	.2385	1.6764
Age	.1114	.0538	2.0686	.0394	.0054	.2173
Gender	.6283	.2543	2.4711	.0140	.1279	1.1287
Edu	.2071	.2264	.9146	.3611	-.2385	.6526
Mus	-.0021	.0085	-.2479	.8044	-.0189	.0146

Standardized coefficients
coeff

X1	-.3238
X2	.3577
Age	.1202
Gender	.1424
Edu	.0535
Mus	-.0166

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.8668	.4206	-2.0606	.0402	-1.6945	-.0390	-.3238

X2	.9574	.3653	2.6207	.0092	.2385	1.6764	.
3577							

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0567	9.4775	2.0000	300.0000	.0001

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.8556	.4254	-2.0114	.0452	-1.6927	-.0185	-.3196
X2	.9731	.3739	2.6022	.0097	.2372	1.7089	.3635

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0566	9.4080	2.0000	298.0000	.0001

Relative indirect effects of X on Y

Country	->	SCInd	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0023	.0360	-.0799	.0741
X2	-.0015	.0286	-.0662	.0579

Country	->	SCInter	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0089	.0526	-.1290	.0872
X2	-.0141	.0794	-.1847	.1321

Partially standardized relative indirect effect(s) of X on Y:

Country	->	SCInd	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0009	.0134	-.0296	.0277
X2	-.0006	.0107	-.0250	.0217

Country	->	SCInter	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0033	.0197	-.0479	.0327
X2	-.0053	.0297	-.0692	.0491

***** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
n
partially standardized form.

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