

Variable key:

recommend=recommendation
screenbe=screening beliefs
knowlR1=knowledge of screening statistics
compR1=comprehension
benefits=perceived benefits
harms=perceived harms
numeracy=numeracy
effective=Screening effectiveness (1=effective, 0=ineffective)
demand= Demand for screening (1=demand, 0=no demand)
gender=Gender (1=female, 0=male)
resident=Resident (1=resident, 0=other)
stated=Statistical education (1=yes, 0=no)
Significant effects are marked in red

***Indirect effects for screening beliefs**

PROCESS vars =numeracy screenbeliefs compR1 knowlR1 recommendation harms benefits
effective demand gender resident stated/y= recommendation/x=screenbeliefs /m=
knowlR1 compR1 benefits harms/model=6/conf=95/boot=5000/contrast=1.

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Release 2.11 *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2013). www.guilford.com/p/hayes3

Model = 6

Y = recommend=recommendation
X = screenbe=screening beliefs
M1 = knowlR1=knowledge of screening statistics
M2 = compR1=comprehension
M3 = benefits=perceived benefits
M4 = harms=perceived harms

Statistical Controls:

CONTROL= numeracy effectiv demand gender resident stated

Sample size
172

***** DIRECT AND INDIRECT EFFECTS *****

Direct effect of X on Y

Effect	SE	t	p	LLCI	ULCI
.0186	.0105	1.7764	.0776	-.0021	.0393

Indirect effect(s) of X on Y

	Effect	Boot SE	BootLLCI	BootULCI
Total:	.0132	.0110	-.0072	.0364
Indl :	.0002	.0024	-.0045	.0054

Ind2 :	.0009	.0007	.0001	.0034
Ind3 :	.0023	.0018	-.0004	.0072
Ind4 :	-.0002	.0004	-.0016	.0002
Ind5 :	.0016	.0010	.0003	.0046
Ind6 :	.0001	.0001	.0000	.0005
Ind7 :	.0000	.0001	-.0003	.0000
Ind8 :	.0000	.0000	-.0002	.0000
Ind9 :	.0012	.0020	-.0017	.0066
Ind10:	.0023	.0034	-.0038	.0097
Ind11:	.0001	.0002	-.0001	.0011
Ind12:	.0000	.0001	-.0005	.0000
Ind13:	.0046	.0090	-.0124	.0229
Ind14:	-.0001	.0003	-.0013	.0001
Ind15:	.0004	.0019	-.0023	.0060
(C17)	-.0008	.0008	-.0036	.0001

Indirect effect key

Ind1 :	screenbe ->	knowlR1 ->	recommen	
Ind2 :	screenbe ->	knowlR1 ->	compR1 ->	recommen
Ind3 :	screenbe ->	knowlR1 ->	benefits ->	recommen
Ind4 :	screenbe ->	knowlR1 ->	harms ->	recommen
Ind5 :	screenbe ->	knowlR1 ->	compR1 ->	benefits ->
recommen				
Ind6 :	screenbe ->	knowlR1 ->	compR1 ->	harms ->
recommen				
Ind7 :	screenbe ->	knowlR1 ->	benefits ->	harms ->
recommen				
Ind8 :	screenbe ->	knowlR1 ->	compR1 ->	benefits ->
harms ->	recommen			
Ind9 :	screenbe ->	compR1 ->	recommen	
Ind10:	screenbe ->	compR1 ->	benefits ->	recommen
Ind11:	screenbe ->	compR1 ->	harms ->	recommen
Ind12:	screenbe ->	compR1 ->	benefits ->	harms ->
recommen				
Ind13:	screenbe ->	benefits ->	recommen	
Ind14:	screenbe ->	benefits ->	harms ->	recommen
Ind15:	screenbe ->	harms ->	recommen	

Specific indirect effect contrast definitions

(C17) Ind2 minus Ind5

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

Number of bootstrap samples for bias corrected bootstrap confidence intervals:
5000

Level of confidence for all confidence intervals in output:
95.00

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

*Indirect effects for numeracy

PROCESS vars =numeracy screenbeliefs compR1 knowlR1 recommendation harms benefits
effective demand gender resident stated/y= recommendation/x=numeracy /m= knowlR1
compR1 benefits harms/model=6/conf=95/boot=5000/contrast=1.

Run MATRIX procedure:

***** PROCESS Procedure for SPSS Release 2.11 *****

Written by Andrew F. Hayes, Ph.D. www.afhayes.com
Documentation available in Hayes (2013). www.guilford.com/p/hayes3

Model = 6
Y = recommen
X = numeracy
M1 = knowlR1
M2 = compR1
M3 = benefits
M4 = harms

Statistical Controls:

CONTROL= screenbe effectiv demand gender resident stated

Sample size
172

***** DIRECT AND INDIRECT EFFECTS *****

Direct effect of X on Y

Effect	SE	t	p	LLCI	ULCI
-.0821	.0453	-1.8144	.0715	-.1715	.0073

Indirect effect(s) of X on Y

	Effect	Boot SE	BootLLCI	BootULCI
Total:	-.0300	.0417	-.1170	.0454
Ind1 :	-.0005	.0069	-.0195	.0116
Ind2 :	-.0021	.0021	-.0099	.0001
Ind3 :	-.0057	.0064	-.0267	.0013
Ind4 :	.0005	.0012	-.0004	.0061
Ind5 :	-.0040	.0038	-.0157	.0004
Ind6 :	-.0002	.0003	-.0017	.0000
Ind7 :	.0001	.0002	.0000	.0012
Ind8 :	.0001	.0001	.0000	.0008
Ind9 :	-.0165	.0127	-.0553	-.0006
Ind10:	-.0313	.0176	-.0747	-.0034
Ind11:	-.0013	.0018	-.0089	.0001
Ind12:	.0006	.0007	.0000	.0037
Ind13:	.0170	.0334	-.0483	.0846
Ind14:	-.0003	.0009	-.0041	.0005
Ind15:	.0136	.0101	.0001	.0441
(C85)	.0147	.0145	-.0033	.0581
(C95)	-.0449	.0202	-.0946	-.0123

Indirect effect key

Ind1 :	numeracy ->	knowlR1 ->	recommen	
Ind2 :	numeracy ->	knowlR1 ->	compR1 ->	recommen
Ind3 :	numeracy ->	knowlR1 ->	benefits ->	recommen
Ind4 :	numeracy ->	knowlR1 ->	harms ->	recommen
Ind5 :	numeracy ->	knowlR1 ->	compR1 ->	benefits ->
recommen				
Ind6 :	numeracy ->	knowlR1 ->	compR1 ->	harms ->
recommen				
Ind7 :	numeracy ->	knowlR1 ->	benefits ->	harms ->
recommen				
Ind8 :	numeracy ->	knowlR1 ->	compR1 ->	benefits ->
harms ->	recommen			
Ind9 :	numeracy ->	compR1 ->	recommen	
Ind10:	numeracy ->	compR1 ->	benefits ->	recommen
Ind11:	numeracy ->	compR1 ->	harms ->	recommen
Ind12:	numeracy ->	compR1 ->	benefits ->	harms ->
recommen				
Ind13:	numeracy ->	benefits ->	recommen	
Ind14:	numeracy ->	benefits ->	harms ->	recommen
Ind15:	numeracy ->	harms ->	recommen	

Specific indirect effect contrast definitions

(C85)	Ind9	minus	Ind10
(C95)	Ind10	minus	Ind15

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

Number of bootstrap samples for bias corrected bootstrap confidence intervals:
5000

Level of confidence for all confidence intervals in output:
95.00

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

*Detailed results from the underlying multiple regressions

Outcome: knowlR1

Model Summary

R	R-sq	F	df1	df2	p
.2619	.0686	1.7252	7.0000	164.0000	.1064

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.3702	.3821	6.2028	.0000	1.6157	3.1247
screenbe	-.0262	.0102	-2.5666	.0112	-.0464	-.0061
numeracy	.0647	.0434	1.4888	.1385	-.0211	.1504
effectiv	-.0741	.1293	-.5732	.5673	-.3294	.1812
demand	.0555	.1284	.4324	.6660	-.1979	.3089
gender	-.0761	.1302	-.5844	.5597	-.3332	.1810
resident	-.0190	.1454	-.1306	.8963	-.3060	.2680
statsed	-.0130	.1330	-.0979	.9221	-.2755	.2495

Outcome: compR1

Model Summary

R	R-sq	F	df1	df2	p
.3389	.1149	2.6439	8.0000	163.0000	.0094

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.8601	.5912	3.1466	.0020	.6928	3.0274
knowlR1	.2624	.1087	2.4134	.0169	.0477	.4771
screenbe	-.0097	.0145	-.6685	.5048	-.0384	.0190
numeracy	.1328	.0609	2.1814	.0306	.0126	.2530
effectiv	.2524	.1802	1.4009	.1631	-.1034	.6082
demand	-.0135	.1788	-.0754	.9400	-.3666	.3396
gender	.0946	.1815	.5212	.6029	-.2638	.4529
resident	-.1518	.2024	-.7501	.4543	-.5515	.2478
statsed	.2439	.1851	1.3177	.1895	-.1216	.6095

Outcome: benefits

Model Summary

R	R-sq	F	df1	df2	p
.4884	.2385	5.6387	9.0000	162.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	4.2606	.7009	6.0789	.0000	2.8765	5.6446
knowlR1	-.1809	.1274	-1.4199	.1576	-.4324	.0707
compR1	-.4865	.0902	-5.3951	.0000	-.6645	-.3084
screenbe	.0095	.0167	.5692	.5700	-.0235	.0426
numeracy	.0352	.0711	.4953	.6210	-.1052	.1756
effectiv	.5964	.2087	2.8579	.0048	.1843	1.0084
demand	.1243	.2058	.6038	.5468	-.2822	.5308
gender	.4135	.2091	1.9775	.0497	.0006	.8263
resident	-.0639	.2334	-.2738	.7846	-.5248	.3970

statsed -.0515 .2142 -.2402 .8105 -.4745 .3716

Outcome: harms

Model Summary

	R	R-sq	F	df1	df2	p
	.2969	.0881	1.5561	10.0000	161.0000	.1243

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.2407	.8058	2.7808	.0061	.6494	3.8319
knowlR1	-.0938	.1330	-.7056	.4814	-.3564	.1687
compR1	.1269	.1016	1.2495	.2133	-.0737	.3276
benefits	.1077	.0815	1.3214	.1883	-.0533	.2687
screenbe	-.0048	.0174	-.2776	.7817	-.0392	.0295
numeracy	-.1715	.0738	-2.3240	.0214	-.3173	-.0258
effectiv	.1601	.2219	.7217	.4715	-.2780	.5983
demand	.4059	.2138	1.8987	.0594	-.0163	.8281
gender	-.1735	.2195	-.7905	.4304	-.6070	.2600
resident	.2718	.2422	1.1225	.2633	-.2064	.7501
statsed	.1406	.2223	.6323	.5281	-.2984	.5796

Outcome: recommen

Model Summary

	R	R-sq	F	df1	df2	p
	.7603	.5780	19.9255	11.0000	160.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.3832	.4976	4.7898	.0000	1.4006	3.3659
knowlR1	-.0074	.0803	-.0924	.9265	-.1661	.1512
compR1	-.1244	.0616	-2.0205	.0450	-.2460	-.0028
benefits	.4839	.0494	9.7889	.0000	.3862	.5815
harms	-.0794	.0475	-1.6706	.0967	-.1733	.0145
screenbe	.0186	.0105	1.7764	.0776	-.0021	.0393
numeracy	-.0821	.0453	-1.8144	.0715	-.1715	.0073
effectiv	-.0165	.1340	-.1230	.9023	-.2812	.2482
demand	.0623	.1304	.4780	.6333	-.1952	.3198
gender	.3842	.1327	2.8961	.0043	.1222	.6462
resident	.2318	.1467	1.5805	.1160	-.0578	.5214
statsed	-.3033	.1343	-2.2591	.0252	-.5684	-.0382