

Detailed results of the moderator analyses

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0. Notes

Variables for the moderator analyses have been pre-specified in the study protocol. The outcome was the subjectively assessed usefulness of the information material directly after consultation (primary outcome of the study). We used the same model as for the main analyses and introduced further covariates along with their interaction term with the group variable. For categorical covariates, we used the largest category as reference in order to maximize power. Metric covariates were centred. The last model (10) includes the covariates that turned out to be possibly relevant in the previous analyses (1-9).

1. Trial site

Variable	Estimate	SE	p ^a
intercept	60.90	2.34	<.001
group [C]	Ref.		
group [I]	5.96	3.22	.032
time [T1]	Ref.		
time [T2]	-1.61	1.89	.395
time [T3]	-1.44	1.93	.456
group [I] * time [T2]	-0.89	2.60	.731
group [I] * time [T3]	-3.44	2.67	.197
site [1]	Ref.		
site [2]	1.54	3.72	.679
site [3]	-1.19	6.21	.848
site [4]	2.93	3.38	.386
group [I] * site [2]	-0.13	5.10	.979
group [I] * site [3]	-7.19	8.60	.403
group [I] * site [4]	-3.86	4.70	.412

n=355

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

2. Migration background (language)

Variable	Estimate	SE	p ^a
intercept	64.10	1.98	<.001
group [C]	Ref.		
group [I]	6.01	2.75	.015
time [T1]	Ref.		
time [T2]	-1.42	1.89	.451
time [T3]	-1.34	1.93	.489
group [I] * time [T2]	-1.20	2.59	.644
group [I] * time [T3]	-3.56	2.66	.181
language [RUS]	Ref.		
language [TUR]	-5.12	3.63	.159
language [POL]	-4.70	4.87	.335
language [ITA]	-9.65	5.18	.064
group [I] * language [TUR]	-2.54	5.17	.623
group [I] * language [POL]	-11.33	6.61	.088
group [I] * language [ITA]	0.29	7.17	.968

n=355

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category; RUS=Russian; TUR=Turkish; POL=Polish;

ITA=Italian

Redundant interaction terms are not shown.

3. Illness

Variable	Estimate	SE	p ^a
intercept	63.20	2.10	<.001
group [C]	Ref.		
group [I]	5.32	2.90	.034
time [T1]	Ref.		
time [T2]	-1.53	1.89	.419
time [T3]	-1.30	1.93	.499
group [I] * time [T2]	-1.03	2.60	.693
group [I] * time [T3]	-3.56	2.66	.181
illness [back pain]	Ref.		
illness [depression]	-2.89	2.83	.308
group [I] * illness [depression]	-2.21	3.94	.576

n=355

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

4. Migration background (language) * Illness

Variable	Estimate	SE	p ^a
intercept	65.23	2.44	<.001
group [C]	Ref.		
group [I]	5.57	3.38	.050
time [T1]	Ref.		
time [T2]	-1.50	1.89	.427
time [T3]	-1.38	1.93	.474
group [I] * time [T2]	-1.18	2.60	.651
group [I] * time [T3]	-3.56	2.66	.181
language [RUS]	Ref.		
language [TUR]	-6.35	4.90	.195
language [POL]	3.97	6.93	.567
language [ITA]	-10.40	5.75	.071
group [I] * language [TUR]	1.82	6.95	.793
group [I] * language [POL]	-11.99	8.97	.182
group [I] * language [ITA]	3.63	8.11	.654
illness [back pain]	Ref.		
illness [depression]	-2.54	3.42	.459
group [I] * illness [depression]	0.95	4.73	.841
language [TUR] * illness [depression]	2.82	7.20	.696
language [POL] * illness [depression]	-15.99	9.65	.099
language [ITA] * illness [depression]	0.33	13.58	.981
gr [I] * lang [TUR] * ill [depression]	-9.38	10.26	.361
gr [I] * lang [POL] * ill [depression]	-4.29	13.22	.746
gr [I] * lang [ITA] * ill [depression]	-12.11	17.64	.493

n=355

^a one-sided p for group, two-sided p for other terms

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ITA=Italian

Redundant interaction terms are not shown.

5. Severity of depressive symptoms

Variable	Estimate	SE	p ^a
intercept	60.08	2.85	<.001
group [C]	Ref.		
group [I]	3.50	3.96	.189
time [T1]	Ref.		
time [T2]	-0.86	3.12	.781
time [T3]	-1.19	3.17	.707
group [I] * time [T2]	0.03	4.33	.995
group [I] * time [T3]	-6.17	4.47	.168
depression [PHQ-9 score]	-0.27	0.27	.306
group [I] * depression [PHQ-9 score]	0.21	0.37	.576

n=146 (only cohort with depression)

The PHQ-9 score ranges from 0 (low severity) to 27 (high severity) and was centred at 12.64 for analysis.

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

6. Severity of back pain symptoms

Variable	Estimate	SE	p ^a
intercept	63.60	2.13	<.001
group [C]	Ref.		
group [I]	5.20	2.96	.040
time [T1]	Ref.		
time [T2]	-2.57	2.35	.275
time [T3]	-1.80	2.41	.454
group [I] * time [T2]	-1.52	3.20	.637
group [I] * time [T3]	-1.53	3.27	.640
back pain [coreset score]	-0.78	1.05	.460
group [I] * back pain [coreset score]	-1.13	1.44	.433

n=209 (only cohort with back pain)

The coreset score ranges from 0 (low severity) to 10 (high severity) and was centred at 4.16 for analysis.

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

7. Acculturation: Ethnic Society Immersion (ESI)

Variable	Estimate	SE	p ^a
intercept	62.10	1.74	<.001
group [C]	Ref.		
group [I]	4.62	2.42	.028
time [T1]	Ref.		
time [T2]	-1.84	1.92	.337
time [T3]	-1.08	1.95	.579
group [I] * time [T2]	-0.46	2.63	.860
group [I] * time [T3]	-3.87	2.69	.150
acculturation [ESI]	9.14	4.66	.050
group [I] * acculturation [ESI]	-0.79	6.32	.901

n=336

The ESI score ranges from 1 (low level) to 4 (high level) and was centred at 3.08 for analysis.

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

8. Acculturation: Dominant Society Immersion (DSI)

Variable	Estimate	SE	p ^a
intercept	62.23	1.74	<.001
group [C]	Ref.		
group [I]	4.65	2.41	.027
time [T1]	Ref.		
time [T2]	-1.80	1.92	.350
time [T3]	-1.15	1.96	.556
group [I] * time [T2]	-0.05	2.63	.847
group [I] * time [T3]	-3.70	2.69	.169
acculturation [DSI]	8.07	3.75	.032
group [I] * acculturation [DSI]	-14.69	5.20	.005

n=336

The DSI score ranges from 1 (low level) to 4 (high level) and was centred at 2.86 for analysis.

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

9. Acculturation: ESI * DSI

Variable	Estimate	SE	p ^a
intercept	61.64	1.87	<.001
group [C]	Ref.		
group [I]	4.71	2.55	.033
time [T1]	Ref.		
time [T2]	-1.84	1.92	.340
time [T3]	-1.13	1.95	.563
group [I] * time [T2]	-0.51	2.63	.846
group [I] * time [T3]	-3.66	2.69	.174
acculturation [ESI]	5.78	5.52	.296
acculturation [DSI]	6.70	4.57	.144
accult [ESI] * accult [DSI]	9.94	11.68	.395
group [I] * acculturation [ESI]	7.39	7.18	.304
group [I] * acculturation [DSI]	-18.66	6.05	.002
group [I] * accult [ESI] * accult [DSI]	0.91	15.59	.954

n=336

The ESI score ranges from 1 (low level) to 4 (high level) and was centred at 3.08 for analysis.

The DSI score ranges from 1 (low level) to 4 (high level) and was centred at 2.86 for analysis.

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category

Redundant interaction terms are not shown.

10. Language & Acculturation

Variable	Estimate	SE	p ^a
intercept	64.38	2.00	<.001
group [C]	Ref.		
group [I]	5.81	2.77	.018
time [T1]	Ref.		
time [T2]	-1.75	1.92	.363
time [T3]	-1.10	1.95	.572
group [I] * time [T2]	-0.68	2.62	.796
group [I] * time [T3]	-3.82	2.68	.155
language [RUS]	Ref.		
language [TUR]	-3.50	3.77	.354
language [POL]	-5.61	5.08	.271
language [ITA]	-12.88	5.44	.018
group [I] * language [TUR]	-3.66	5.27	.488
group [I] * language [POL]	-7.07	6.91	.307
group [I] * language [ITA]	3.01	7.43	.686
acculturation [ESI]	5.37	5.63	.341
acculturation [DSI]	6.63	4.46	.138
group [I] * acculturation [ESI]	5.77	7.32	.431
group [I] * acculturation [DSI]	-14.80	5.98	.014

n=355

^a one-sided p for group, two-sided p for other terms

C=control; I=intervention; SE=standard error; Ref.=reference category; RUS=Russian; TUR=Turkish; POL=Polish; ITA=Italian

Redundant interaction terms are not shown.