

ESM 1: The German Version of the Multidimensional Acculturative Stress Inventory (MASI) for Turkish-Origin Immigrants – An Example for Measurement Invariance of Filter Questions

Doi: 10.1027/1015-5759/a000567

Table E1
Model Fit Indices of Confirmatory Factor Analyses

	<i>N</i>	χ^2	<i>df</i>	CFI	RMSEA	SRMR
Baseline models						
Mexican	174	664.979***	269	0.827	0.092 [0.084 – 0.100]	0.083
Turkish	233	510.768***	269	0.660	0.067 [0.058 – 0.075]	0.074
Modified models						
Mexican	174	516.737***	259	0.746	0.077 [0.068 – 0.086]	0.080
Turkish	233	439.834***	259	0.887	0.076 [0.067 – 0.085]	0.084

Note. * $p < .05$, ** $p < .01$, *** $p < .001$. CFI and RMSEA are scaled. The baseline model is based on the four-factor structure as proposed by Rodriguez et al. (2002). The final measurement models were modified (correlated residuals of items 3 and 5, 3 and 6, 5 and 9, 10 and 13, 11 and 18, 13 and 14, 17 and 19, 19 and 21, and 21 and 23)

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Table E2

Means, standard deviations, and bivariate correlations between the MASI variables and related constructs in the Turkish group

	<i>M</i>	<i>SD</i>	F1	F2	F3	F4	PSS score	Language use ^a	FRACC heritage	FRACC host
<i>MASI occurrence of stressor</i>										
F1 Turkish competency pressures	0.08	0.16	1				-.02	.18**	-.33**	.11
F2 German competency pressures	0.07	0.15	.12	1			.03	-.17*	.12	-.24**
F3 Pressure to acculturate	0.48	0.26	.08	.23**	1		.26**	-.03	.30**	-.52**
F4 Pressure against acculturation	0.17	0.24	.32**	.18**	.31**	1	.07	.07	-.17*	-.04
<i>MASI stress appraisal</i>										
F1 Turkish competency pressures	2.62	1.01	1				.24*	.03	-.09	.16
F2 German competency pressures	3.00	1.12	.22	1			.38**	.11	-.16	-.19
F3 Pressure to acculturate	3.35	0.80	.16	.35**	1		.19**	-.05	.12	-.26**
F4 Pressure against acculturation	3.03	1.16	.62**	.13	.40**	1	.29**	-.04	.08	-.17

Note. ** $p < .01$, * $p < .05$. ^a binary variable (0 = more Turkish, 1 = more German) PSS = Perceived Stress Scale. FRACC = Frankfurt Acculturation Scale, heritage = orientation towards the heritage culture, host = orientation towards the host culture.

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Table E3
Regression analyses with psychological distress as criterion

	Psychological distress (PSS score)							
	<i>Predicted by MASI – occurrence of stressor</i>				<i>Predicted by MASI – stress appraisal</i>			
	M1	M2	M3	M4	M5	M6	M7	M8
Intercept	2.75 (0.46)**	2.66 (0.46)**	2.18 (0.46)***	2.72 (0.47)***	0.90 (0.13)	2.16 (0.61)**	2.29 (0.48)**	2.08 (0.64)**
Age	-0.02 (0.01)*	-0.02* (0.01)	-0.02 (0.01)*	-0.02 (0.01)*	-0.03 (0.01)*	-0.02 (0.01)	-0.02* (0.01)	-0.01 (0.01)
Gender	-0.41 (0.11)***	-0.40 (0.11)***	-0.39 (0.11)***	-0.40 (0.11)***	-0.37 (0.21)	-0.19 (0.22)	-0.44 (0.11)**	-0.38 (0.19)*
Years of education	-0.01 (0.03)	-0.00 (0.03)	0.01 (0.03)	-0.01 (0.03)	0.13 (0.10)	-0.02 (0.05)	-0.02 (0.03)	-0.02 (0.05)
MASI								
F1 Turkish competency pressures	-0.24 (0.27)	-	-	-	0.13 (0.08)	-	-	-
F2 German competency pressures	-	0.43 (0.30)	-	-	-	0.22 (0.07)**	-	-
F3 Pressure to acculturate	-	-	0.67 (0.16)***	-	-	-	0.16 (0.06)**	-
F4 Pressure against acculturation	-	-	-	0.04 (0.19)	-	-	-	0.13 (0.06)*
R^2	.100	.105	.167	.097	.206	.228	.139	.119
F	5.93***	6.26***	10.66***	5.72***	3.95**	3.54*	8.00***	2.84*
ΔR^2	.003	.008	.070	.0002	.036	.152	.036	.056
ΔF	0.79	2.00	17.89***	0.05	2.78	9.45**	8.27**	5.36*

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Observations 218 218 218 218 66 53 204 89

Note. * $p < .05$, ** $p < .01$, *** $p < .001$. Beta coefficients, standard error in parentheses. Gender: 0=male, 1=female. Models M1-M4 included the MASI factors based on the occurrence of stressor scale and models M5-M8 included the MASI factors based on the stress appraisal scale. PSS = Perceived Stress Scale.

Table E4
Regression analyses with FRACC Orientation towards the heritage culture as the criterion

	FRACC Orientation towards the heritage culture								
	<i>Predicted by MASI – occurrence of stressor</i>				<i>Predicted by MASI – stress appraisal</i>				
	M9	M10	M11	M12	M13	M14	M15	M16	
Intercept	5.24 (.77)***	5.02 (.02)***	4.14 (.82)***	5.54 (.82)***	5.84 (2.50)*	6.39 (1.22)***	4.45 (.84)**	5.87 (1.15)***	
Age	-0.03 (.02)	-0.03 (.02)	-0.02 (.02)	-0.03 (.02)*	-0.02 (.03)	-0.02 (.02)	-0.02 (.02)	-0.04 (.03)	
Gender	0.24 (.19)	0.30 (.20)	0.33 (.19)	0.24 (.20)	0.43 (.42)	0.15 (.43)	0.30 (.20)	0.55 (.34)	
Years of education	-0.04 (.06)	-0.04 (.06)	-0.02 (.06)	-0.06 (.06)	-0.15 (.20)	-0.10 (.09)	-0.05 (.06)	-0.15 (.09)	
MASI									
F1 Turkish competency pressures	-2.32 (.46)***	-	-	-	-0.06 (.15)	-	-	-	
F2 German competency pressures	-	0.63 (.54)	-	-	-	-0.19 (.14)	-	-	
F3 Pressure to acculturate	-	-	1.17 (.28)***	-	-	-	0.18 (.10)	-	
F4 Pressure against acculturation	-	-	-	0.82 (.33)*	-	-	-	0.15 (.10)	
	R^2	.133	.033	.102	.056	.046	.090	.036	.096
	F	8.15***	1.82	6.00***	3.12*	0.74	1.17	1.83	2.18

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ΔR^2	.106	.006	.075	.028	.002	.032	.017	.023
ΔF	25.97***	1.33	17.62***	6.38*	0.14	1.67	3.55	2.04
Observations	217	217	217	217	66	52	203	87

Note. * $p < .05$, ** $p < .01$, *** $p < .001$. Beta coefficients, standard error in parentheses. Gender: 0=male, 1=female. Models M9-M12 included the MASI factors based on the occurrence of stressor scale and models M13-M16 included the MASI factors based on the stress appraisal scale. FRACC = Frankfurt Acculturation Scale.

Table E5
Regression analyses with FRACC Orientation towards the host culture as the criterion

	FRACC Orientation towards the host culture							
	<i>Predicted by MASI – occurrence of stressor</i>				<i>Predicted by MASI – stress appraisal</i>			
	M17	M18	M19	M20	M21	M22	M23	M24
Intercept	2.65 (.80)**	3.00 (.80)***	4.50 (.73)**	2.78 (.82)***	3.63 (2.21)	4.22 (1.15)***	3.73 (.84)***	4.16 (1.12)***
Age	0.02 (.02)	0.02 (.02)	0.01 (.01)	0.02 (.02)	0.01 (.02)	0.01 (.02)	0.01 (.02)	-0.00 (.03)
Gender	0.02 (.02)	-0.01 (.19)	-0.05 (.17)	-0.01 (.20)	-0.22 (.37)	-0.50 (.41)	-0.01 (.20)	-0.36 (.33)
Years of education	0.06 (.06)	0.04 (.06)	0.01 (.05)	0.06 (.06)	-0.03 (.18)	-0.05 (.08)	0.08 (.06)	0.01 (.08)
MASI								
F1 Turkish competency pressures	0.72 (.48)	-	-	-	0.17 (.13)	-	-	-
F2 German competency pressures	-	-1.60 (.53)**	-	-	-	-0.15 (.14)	-	-
F3 Pressure to acculturate	-	-	-2.13 (.25)**	-	-	-	-0.36 (.10)***	-
F4 Pressure against	-	-	-	-0.21 (.33)	-	-	-	-0.18 (.10)

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acculturation

R^2	.021	.052	.267	.012	.037	.066	.070	.047
F	1.14	2.89*	19.28***	0.67	0.59	0.83	3.73***	1.01
ΔR^2	.011	.041	.256	.002	.028	.025	.064	.038
ΔF	2.29	9.22**	74.08***	0.41	1.76	1.25	13.53***	3.23
Observations	217	217	217	217	66	52	203	87

Note. * $p < .05$, ** $p < .01$, *** $p < .001$. Beta coefficients, standard error in parentheses. Gender: 0=male, 1=female. Models M17-M20 included the MASI factors based on the occurrence of stressor scale and models M21-M24 included the MASI factors based on the stress appraisal scale. FRACC = Frankfurt Acculturation Scale.