

Table S7: Multilevel-linear regression results (regression coefficients and [95% confidence intervals]) predicting school Grades in German (Intersectional models).

	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Gender (ref: boy)						
Girl	0.37*** [0.32,0.41]	0.37*** [0.31,0.42]	0.37*** [0.33,0.41]	0.37*** [0.32,0.41]	0.37*** [0.31,0.42]	0.37*** [0.33,0.42]
BMI (ref: non-overweight/obese)						
Overweight/obese	-0.12** [-0.20,-0.05]	-0.12* [-0.22,-0.01]	-0.13*** [-0.21,-0.05]	-0.12** [-0.20,-0.05]	-0.12* [-0.22,-0.01]	-0.13*** [-0.21,-0.05]
SES (z)	0.08*** [0.05,0.10]	0.04* [0.00,0.07]	0.04 [-0.00,0.07]	0.08*** [0.05,0.10]	0.04* [0.00,0.07]	0.04 [-0.00,0.08]
Minority status / group (ref: majority)						
Minority	-0.13*** [-0.18,-0.09]	-0.15*** [-0.23,-0.07]	-0.13*** [-0.18,-0.09]			
Turkey				-0.22*** [-0.31,-0.12]	-0.19* [-0.35,-0.04]	-0.25*** [-0.38,-0.13]
FSU				-0.18*** [-0.28,-0.08]	-0.20* [-0.35,-0.04]	-0.17** [-0.27,-0.06]
NW+South Europe				-0.10* [-0.21,-0.00]	-0.13 [-0.31,0.05]	-0.10 [-0.21,0.00]

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Central-Eastern Europe						
Other				-0.07	-0.17*	-0.06
				[-0.15,0.02]	[-0.30,-0.03]	[-0.15,0.02]
				-0.14***	-0.11	-0.14***
				[-0.22,-0.06]	[-0.25,0.03]	[-0.22,-0.06]
Test score	0.26***	0.26***	0.26***	0.26***	0.26***	0.26***
	[0.23,0.28]	[0.23,0.28]	[0.23,0.28]	[0.23,0.28]	[0.23,0.28]	[0.23,0.28]
Reasoning score	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	[-0.03,0.02]	[-0.03,0.02]	[-0.03,0.02]	[-0.03,0.02]	[-0.03,0.02]	[-0.03,0.02]
Perceptual speed score	0.03**	0.03**	0.03**	0.03**	0.03**	0.03**
	[0.01,0.06]	[0.01,0.06]	[0.01,0.06]	[0.01,0.06]	[0.01,0.06]	[0.01,0.06]
School type (ref: <i>Hauptschule</i>)						
<i>SmmB</i>	0.00	0.00	0.00	0.00	0.00	0.00
	[-0.10,0.11]	[-0.10,0.11]	[-0.10,0.11]	[-0.10,0.10]	[-0.10,0.10]	[-0.10,0.10]
<i>Realschule</i>	-0.20***	-0.20***	-0.20***	-0.21***	-0.20***	-0.21***
	[-0.29,-0.12]	[-0.29,-0.11]	[-0.29,-0.11]	[-0.29,-0.12]	[-0.29,-0.12]	[-0.29,-0.12]
<i>Gymnasium</i>	-0.11*	-0.11*	-0.11*	-0.11*	-0.12*	-0.12*
	[-0.20,-0.02]	[-0.20,-0.02]	[-0.20,-0.02]	[-0.21,-0.02]	[-0.21,-0.02]	[-0.21,-0.03]

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Interactions						
Minority x overweight/obese		-0.02 [-0.16,0.12]				
Minority x girl		0.03 [-0.07,0.13]				
Minority x SES (z)		0.02 [-0.03,0.06]				
Overweight/obese x girl		-0.03 [-0.18,0.11]			-0.03 [-0.18,0.12]	
Overweight/obese x SES (z)		-0.03 [-0.10,0.04]			-0.03 [-0.10,0.04]	
Girl x SES (z)		0.08*** [0.04,0.12]			0.08*** [0.04,0.12]	
Majority x non-overweight/obese x girl x SES (z)					0.08** [0.03,0.13]	
Majority x overweight/obese x boy x SES (z)					-0.04 [-0.14,0.07]	

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Majority x overweight/obese x girl x SES (z)			0.09			
			[-0.07,0.25]			
Minority x non-overweight/obese x boy x SES (z)			0.03			
			[-0.05,0.10]			
Minority x non-overweight/obese x girl x SES (z)			0.09**			
			[0.03,0.16]			
Minority x overweight/obese x boy x SES (z)			-0.01			
			[-0.15,0.13]			
Minority x overweight/obese x girl x SES (z)			0.05			
			[-0.12,0.22]			
Turkey x overweight/obese					-0.01	
					[-0.26,0.25]	
FSU x overweight/obese					0.13	
					[-0.15,0.41]	
NW+South Europe x overweight/obese					-0.00	
					[-0.34,0.34]	
Central-Eastern Europe x overweight/obese					-0.09	
					[-0.33,0.16]	

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Other x overweight/obese					-0.03	
Turkey x girl					[-0.22,0.17]	
FSU x girl					-0.10	
NW+South Europe x girl					[-0.28,0.08]	
Central-Eastern Europe x girl					0.03	
Other x girl					[-0.17,0.24]	
Turkey x SES (z)					0.05	
FSU x SES (z)					[-0.17,0.26]	
NW+South Europe x SES (z)					0.22**	
					[0.06,0.38]	
					-0.06	
					[-0.24,0.13]	
					-0.04	
					[-0.15,0.07]	
					0.04	
					[-0.06,0.14]	
					0.04	
					[-0.06,0.15]	

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Central-Eastern Europe x SES (z)		0.01				
		[-0.08,0.09]				
Other x SES (z)		-0.00				
		[-0.08,0.07]				
Majority x non-overweight/obese x girl x SES (z)						0.08**
						[0.03,0.13]
Majority x overweight/obese x boy x SES (z)						-0.04
						[-0.14,0.07]
Majority x overweight/obese x girl x SES (z)						0.09
						[-0.07,0.25]
Turkey x non-overweight/obese x boy x SES (z)						-0.03
						[-0.18,0.11]
Turkey x non-overweight/obese x girl x SES (z)						0.05
						[-0.10,0.19]
Turkey x overweight/obese x boy x SES (z)						-0.08
						[-0.38,0.22]
Turkey x overweight/obese x girl x SES (z)						-0.08
						[-0.33,0.17]

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
FSU x non-overweight/obese x boy x SES (z)						-0.03 [-0.18,0.13]
FSU x non-overweight/obese x girl x SES (z)						0.18** [0.05,0.30]
FSU x overweight/obese x boy x SES (z)						0.00 [-0.25,0.26]
FSU x overweight/obese x girl x SES (z)						-0.04 [-0.59,0.50]
NW+South Europe x non-overweight/obese x boy x SES (z)						0.02 [-0.14,0.18]
NW+South Europe x non-overweight/obese x girl x SES (z)						0.13 [-0.00,0.27]
NW+South Europe x overweight/obese x boy x SES (z)						0.14 [-0.25,0.52]
NW+South Europe x overweight/obese x girl x SES (z)						0.06 [-0.53,0.65]
Central-Eastern Europe x non-overweight/obese x boy x SES (z)						0.04 [-0.11,0.19]

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Table S7: Continuation from the previous page

	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
Central-Eastern Europe x non-overweight/obese x girl x SES (z)						0.07 [-0.05,0.19]
Central-Eastern Europe x overweight/obese x boy x SES (z)						-0.09 [-0.36,0.19]
Central-Eastern Europe x overweight/obese x girl x SES (z)						0.11 [-0.33,0.56]
Other x non-overweight/obese x boy x SES (z)						0.06 [-0.07,0.19]
Other x non-overweight/obese x girl x SES (z)						0.02 [-0.09,0.14]
Other x overweight/obese x boy x SES (z)						-0.04 [-0.34,0.27]
Other x overweight/obese x girl x SES (z)						0.08 [-0.21,0.36]
Intercept	-0.06 [-0.13,0.01]	-0.06 [-0.13,0.02]	-0.06 [-0.13,0.01]	-0.05 [-0.12,0.02]	-0.05 [-0.13,0.02]	-0.06 [-0.13,0.01]
SD(school)	0.19*** [0.14,0.25]	0.19*** [0.14,0.25]	0.19*** [0.14,0.25]	0.19*** [0.14,0.25]	0.19*** [0.14,0.25]	0.19*** [0.14,0.25]

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	Model no IE	Model 2-way IE	Model 4-way IE	Model no IE	Model 2-way IE	Model 4-way IE
SD(class)	0.29*** [0.25,0.33]	0.29*** [0.25,0.33]	0.29*** [0.25,0.33]	0.29*** [0.25,0.33]	0.29*** [0.25,0.33]	0.29*** [0.25,0.33]
Sigma	0.87*** [0.85,0.88]	0.87*** [0.85,0.88]	0.87*** [0.85,0.88]	0.87*** [0.85,0.88]	0.87*** [0.85,0.88]	0.87*** [0.85,0.88]
<i>N</i>	14005	14005	14005	14005	14005	14005

Note: *** $p \leq 0.001$, ** $p \leq 0.01$, * $p \leq 0.05$

Source: NEPS SC4 (based on $m = 50$ multiple imputed datasets); weighted data, our own calculations.