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Immigrant-Native Differences in Health and Well-being among European Integration Policy Regimes

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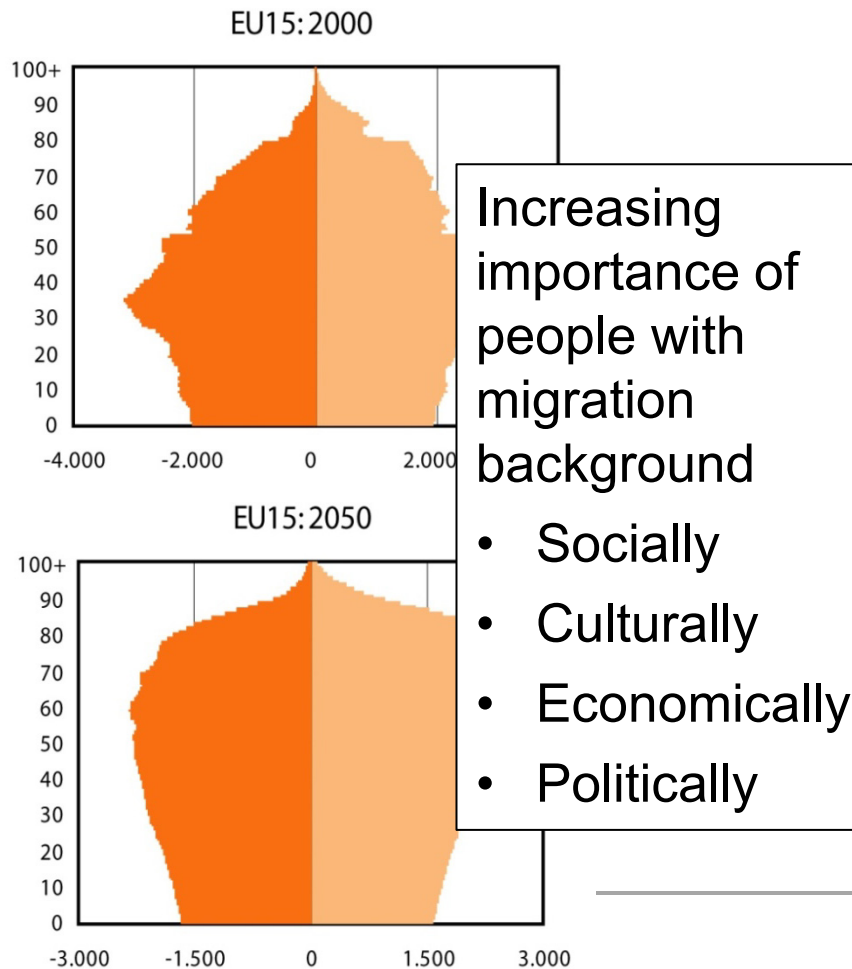
SHARE User Conference

Luxembourg, 12.11.2015

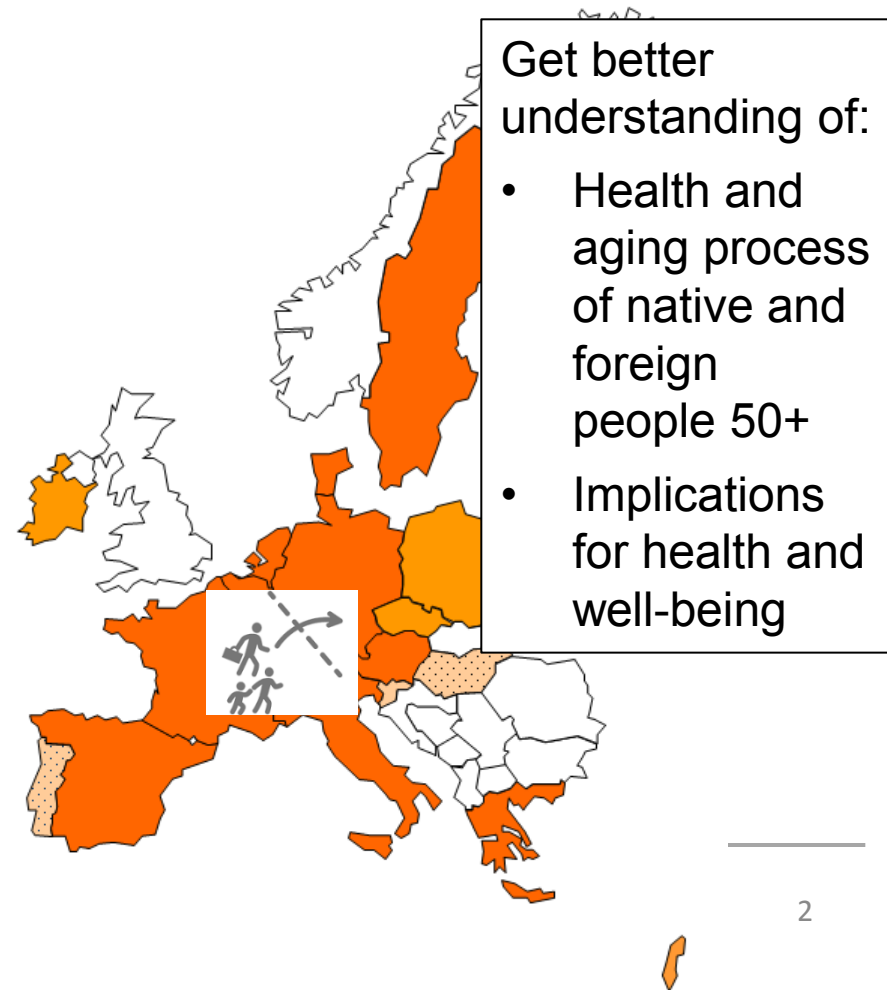


Introduction

Rapid population aging in Europe



Large migration movements in Europe within past 100 years





Motivation

- ▶ Demographic aging and international migration
→ transformation of European population structure
- ▶ Large debates on immigration control and integration policies on political agenda
- ▶ Heterogeneous immigration policies across Europe
→ ideal for comparative analyses
- ▶ Little understanding on how these affect immigrant health and well-being



Empirical findings

- ▶ Extensive research on younger (labor) migrants
 - ▶ Healthy migrant phenomenon (Norredam et al. 2014, etc.)
- ▶ Research with focus on older migrants
 - ▶ Self-perceived health (Lanari et al. 2015)
 - ▶ Self-perceived health and depression (Lanari & Bussini 2012)
 - ▶ Functional (dis)ability, disease incidence and behavioral risks (Solé-Auró et al. 2008)
- ▶ Limited research on the influence of immigration policies on migrants' health
 - ▶ Depression (Levecque & Van Rossem 2014)
 - ▶ Self-perceived health (Malmusi 2014)



Research questions

1. Are there differences in health and well-being between migrants and natives across Europe?
2. Are potential differences associated with different forms of migrant integration policies?

Our contribution:

- ▶ Analyze health inequalities for older migrants in a cross-national setting
- ▶ Use of both subjective and objective measures for health and well-being
- ▶ Influence of institutional context: integration policies



Data

- ▶ SHARE waves 1, 2, 4, 5
- ▶ Persons aged 50 to 85
- ▶ Included countries: AT, DE, SE, NL, ES, IT, FR, DK, CH, BE, LU
- ▶ Total sample size: 66,006 individuals (124,804 obs.)
 - ▶ 9.8% migrants: 6,442 individuals (11,009 obs.)
 - Definition of migrant: respondents born in a foreign country



Variables

- ▶ **DV: grip strength (max. value)**

- ▶ Objective measure for physical health
- ▶ Scale from 0 to 100
- ▶ Overall mean: 34.6 (SD: 12.0)



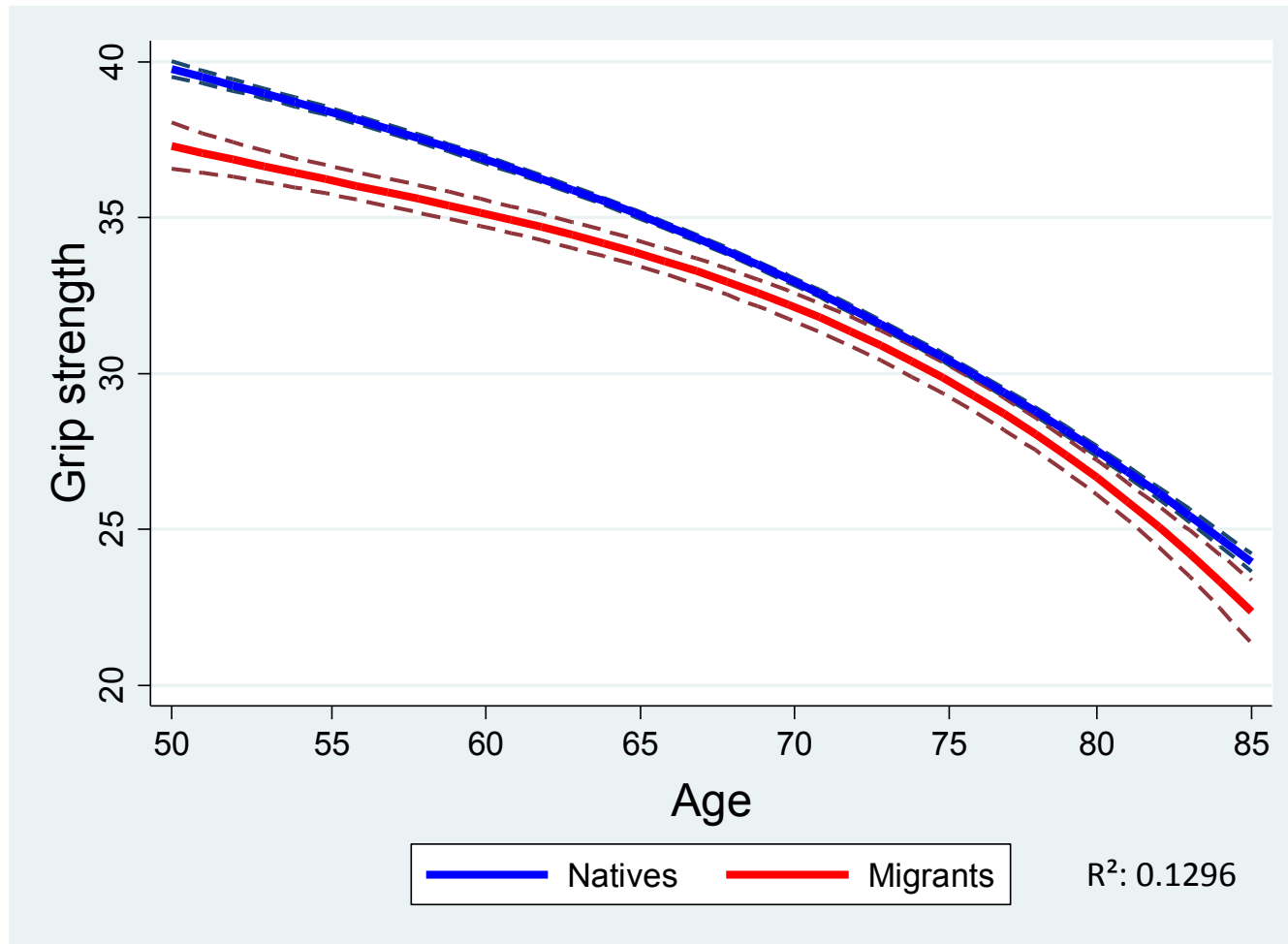
- ▶ **DV: CASP** (Control, Autonomy, Self-realization, Pleasure)

- ▶ Subjective measure for quality of life and well-being
- ▶ Sum score of 12 items (min. 12 – max. 48)
- ▶ Overall mean: 38.3 (SD: 6.1)

- ▶ Controls: socio-demographic variables, height and weight, migration variables

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Grip strength over the life course (RE)

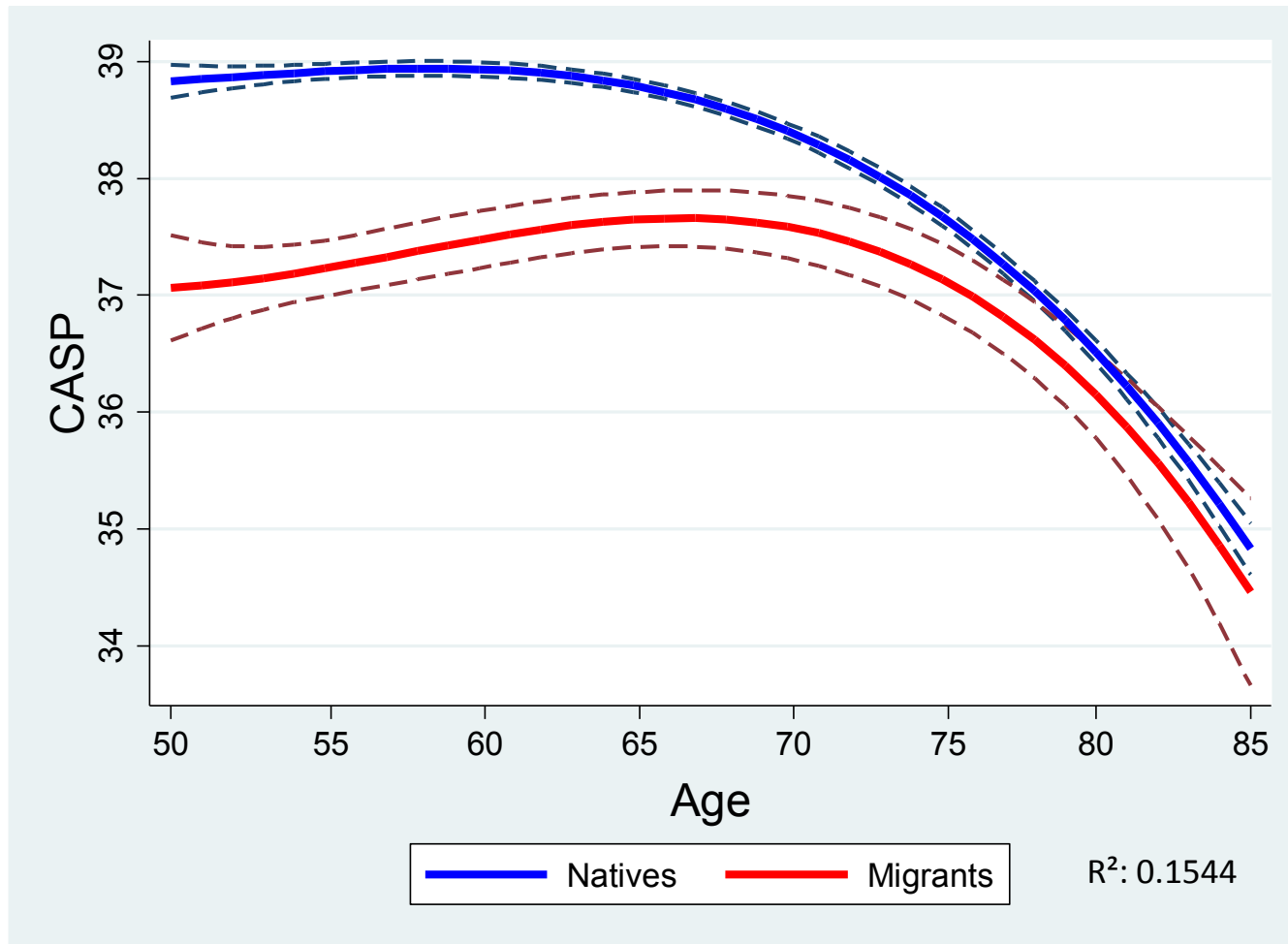


Note: Group-specific growth curves based on marginal effects and standard errors estimated from RE regression models with individual-level clustered robust standard errors; controlling for age, wave, country



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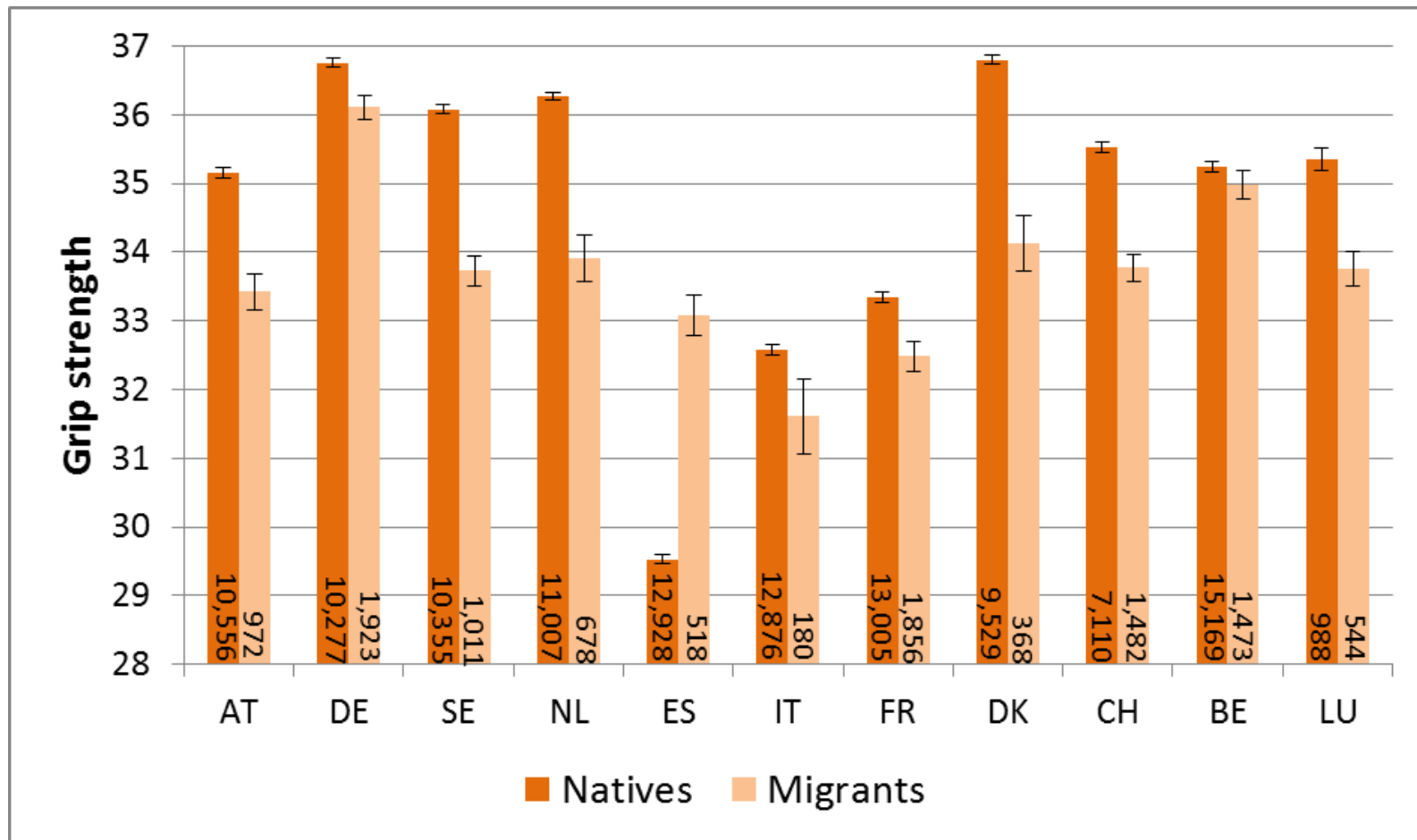
CASP over the life course (RE)



Note: Group-specific growth curves based on marginal effects and standard errors estimated from RE regression models with individual-level clustered robust standard errors; controlling for age, wave, country



Grip strength by country (predictive margins)

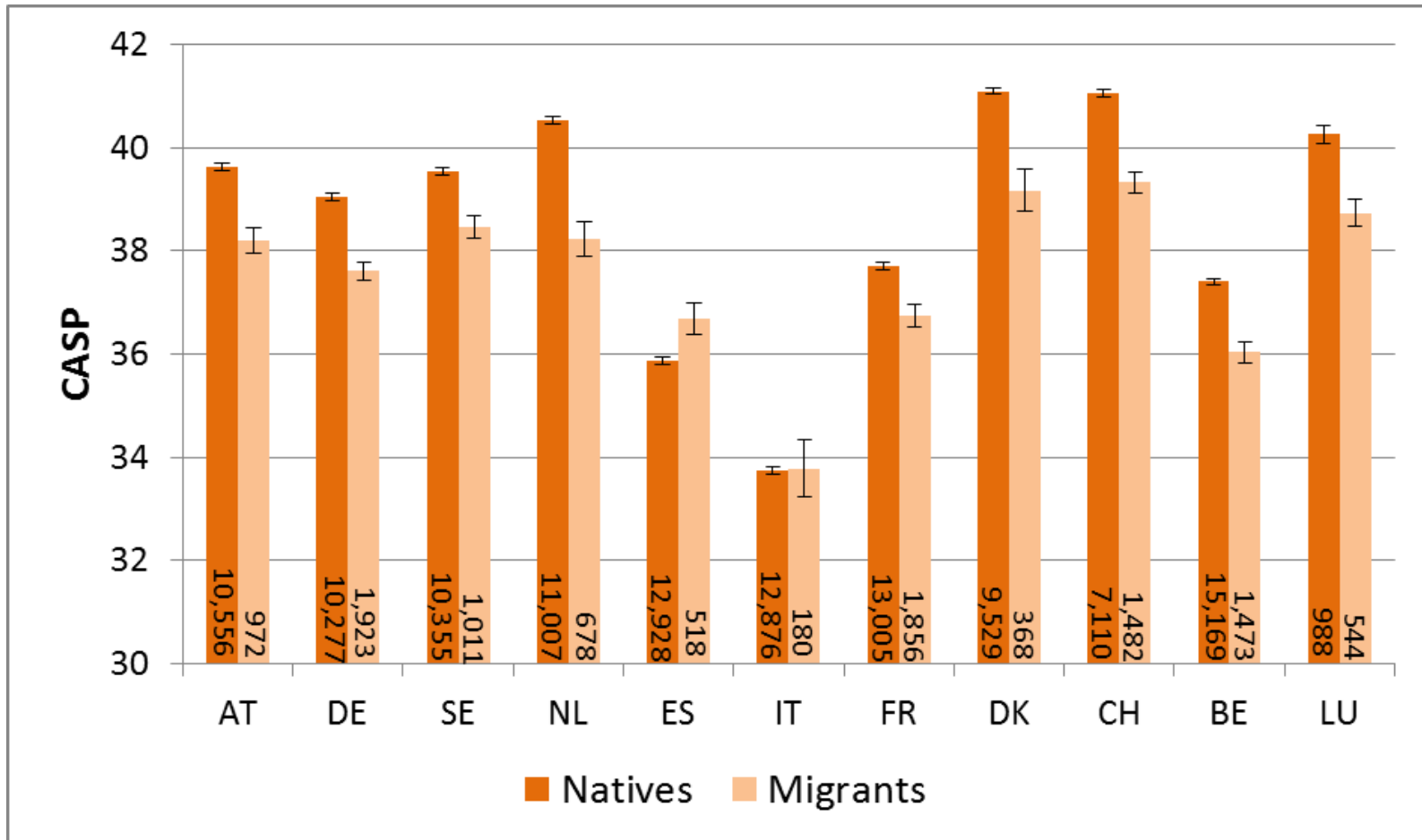


Note: Empty models based on marginal effects and standard errors estimated from RE regression models with individual-level clustered robust standard errors



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CASP by country (predictive margins)



Note: Empty models based on marginal effects and standard errors estimated from RE regression models with individual-level clustered robust standard errors



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Institutional context: MIPEX

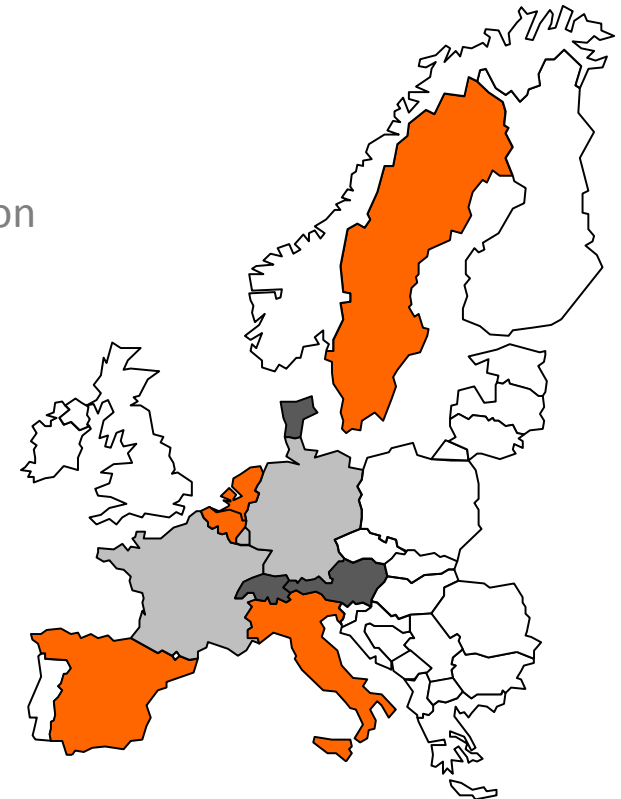
- ▶ MIPEX – Migration Integration Policy Index
 - ▶ Measuring integration policies for migrants in all EU countries
 - ▶ Collaborative study of 25 organizations led by British Council
 - ▶ Started in 2004, repeated every 4 years
- ▶ MIPEX uses over 100 policy indicators covering seven policy areas:
 - ▶ Labor market mobility
 - ▶ Education
 - ▶ Political participation
 - ▶ Access to nationality
 - ▶ Long-term residence
 - ▶ Family reunion
 - ▶ Anti-discrimination
- ▶ Score for each dimension (0-100)
- ▶ Overall score per country = average of all dimensions per country



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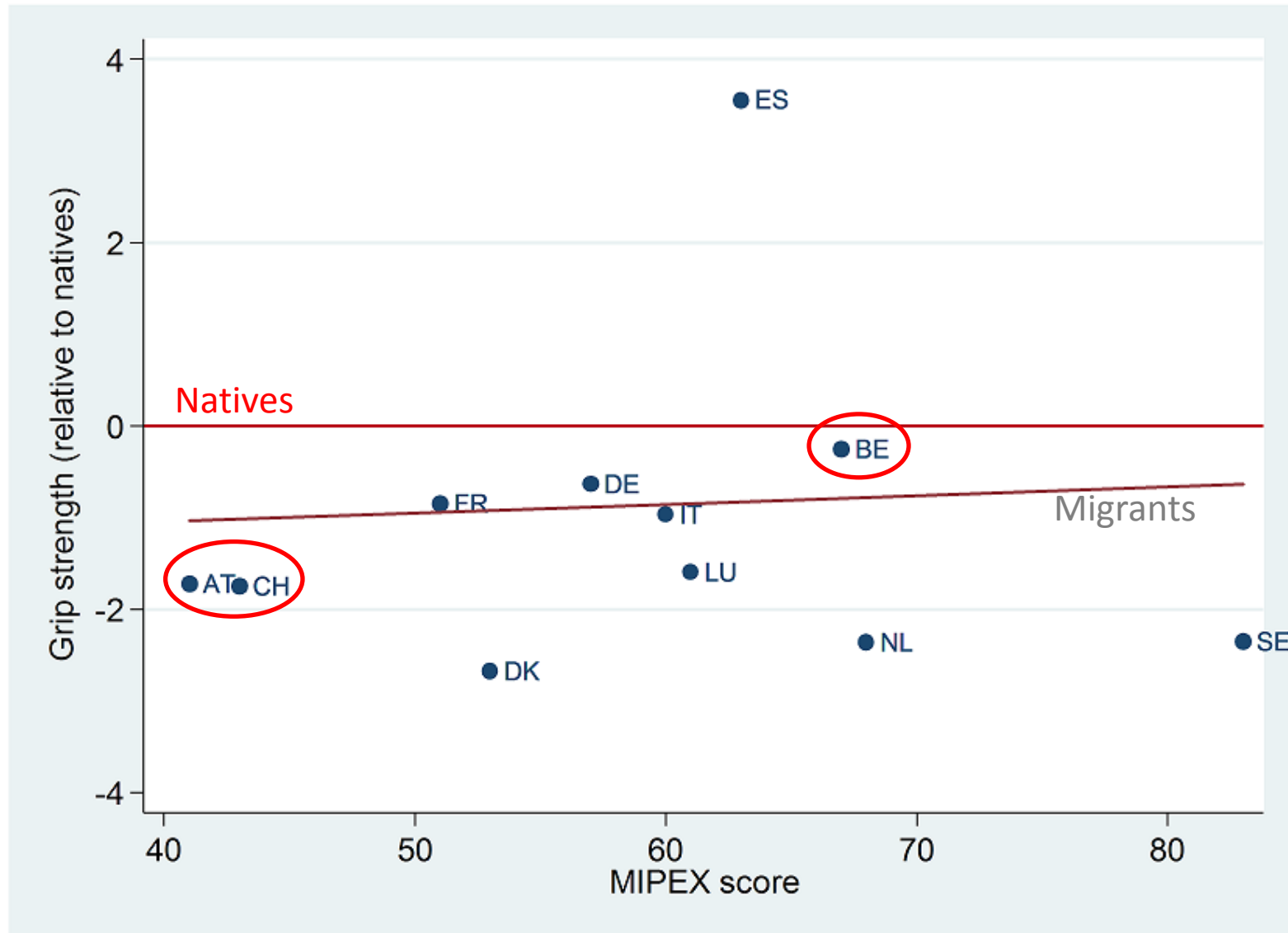
MIPEX classification based on Meuleman & Reeskens (2008)

- ▶ **Inclusive**
 - ▶ Relatively high scores on all dimensions
 - ▶ Citizenship acquisition through residence or birth
 - Most inclusive integration policies
- ▶ **Conditional**
 - ▶ Low levels of labor market inclusion and family reunion
 - ▶ Restrictive procedures for long-term residence
 - ▶ Relatively high scores of political participation and access to nationality
 - Integration is conveyed through naturalization
- ▶ **Restrictive**
 - ▶ Restrictive naturalization procedures
 - ▶ Low levels of political participation
 - ▶ Citizenship acquisition based on ancestry
 - Immigrants as temporary guests



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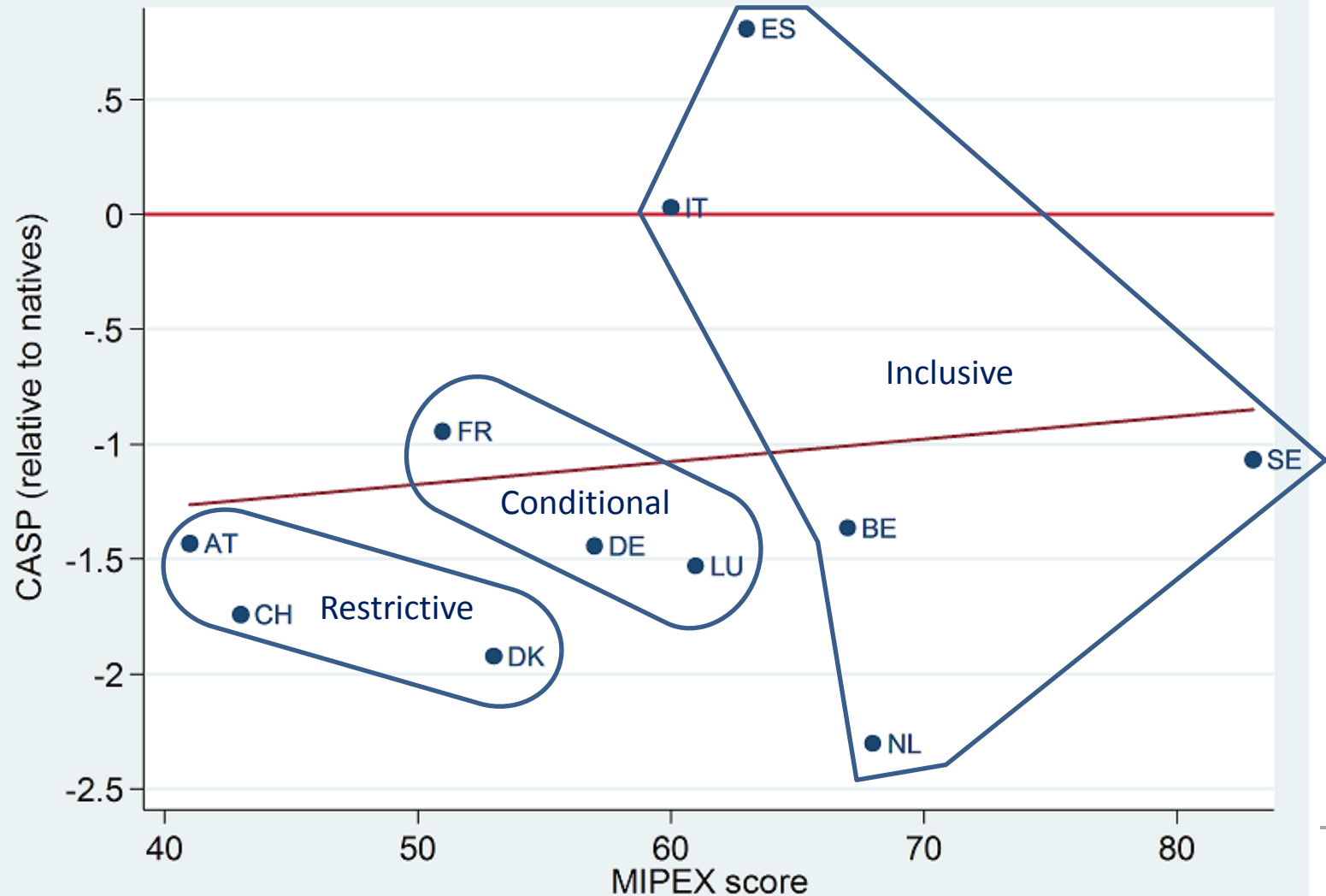
Grip strength by MIPEX





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CASP by MIPEX



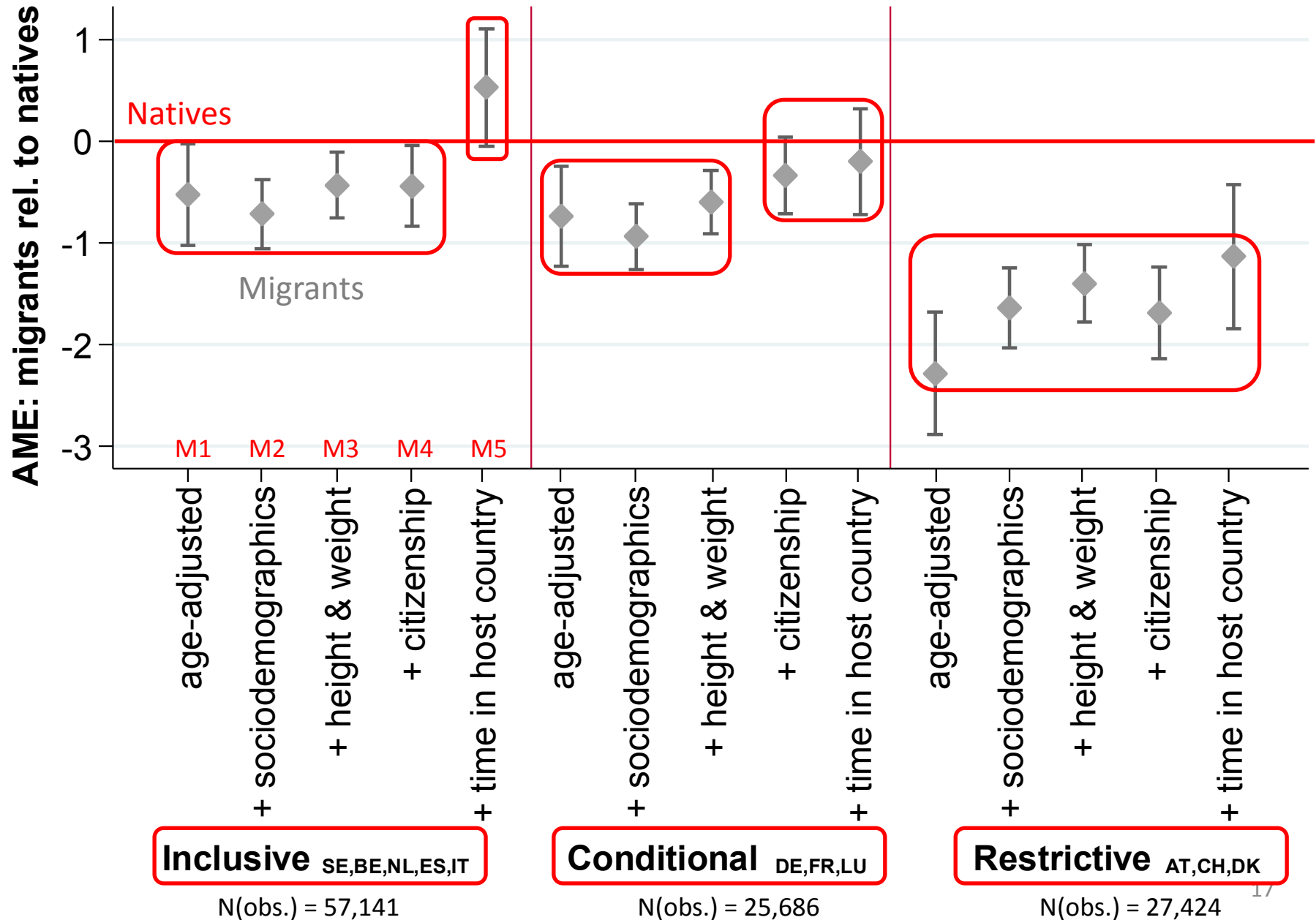


Models

Multivariate RE regressions per integration policy type

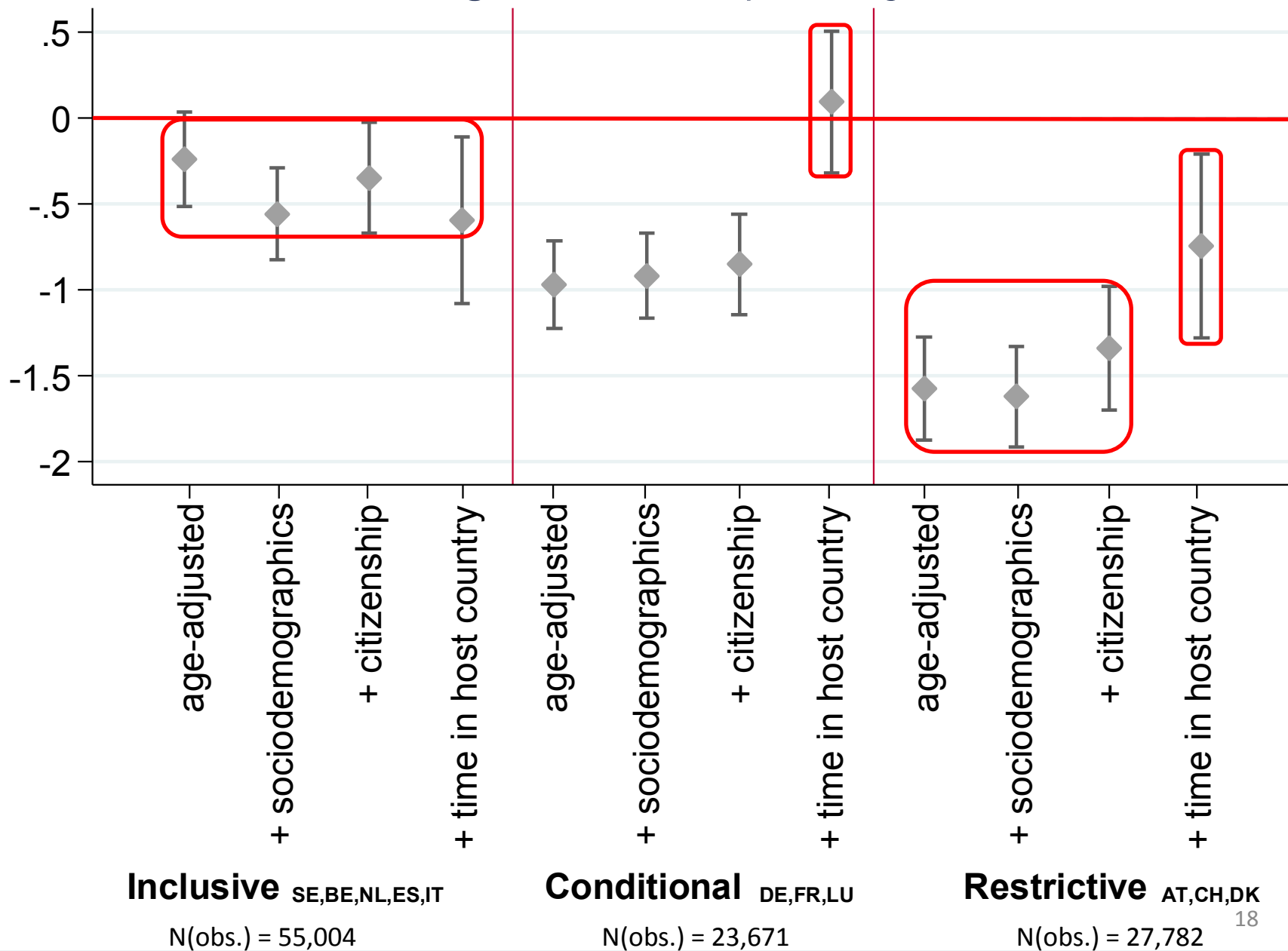
- ▶ Empty model
 - ▶ Age (centered)
 - ▶ Wave
 - ▶ Country
- ▶ + Socio-demographic variables
- ▶ + Height & weight (grip strength only)
- ▶ + Citizenship
- ▶ + Years in host country

Regression of *maxgrip* on *migrant*



AME: migrants rel. to natives

Regression of *casp* on *migrant*





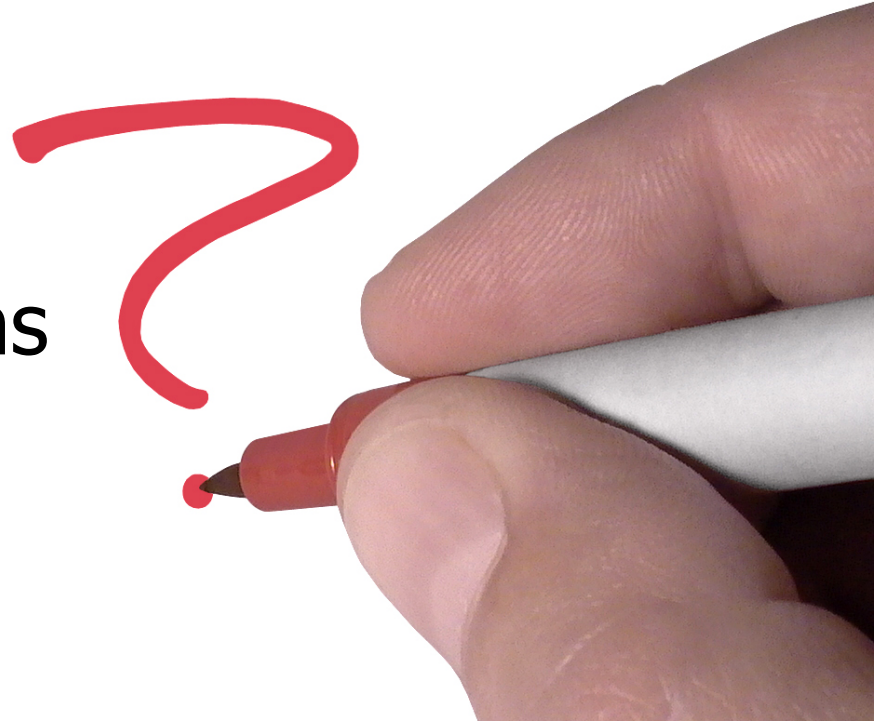
Summary and conclusion

- ▶ Significant differences between migrants and natives on both measures for health and well-being
 - ▶ These differences vanish over the life course
- ▶ Current integration policies correlate with country differences on both outcome measures
 - ▶ Inequalities are highest in „restrictive“ countries
- ▶ Inequalities are mainly mediated by time spent in host country



Thank you!

Questions





Backup



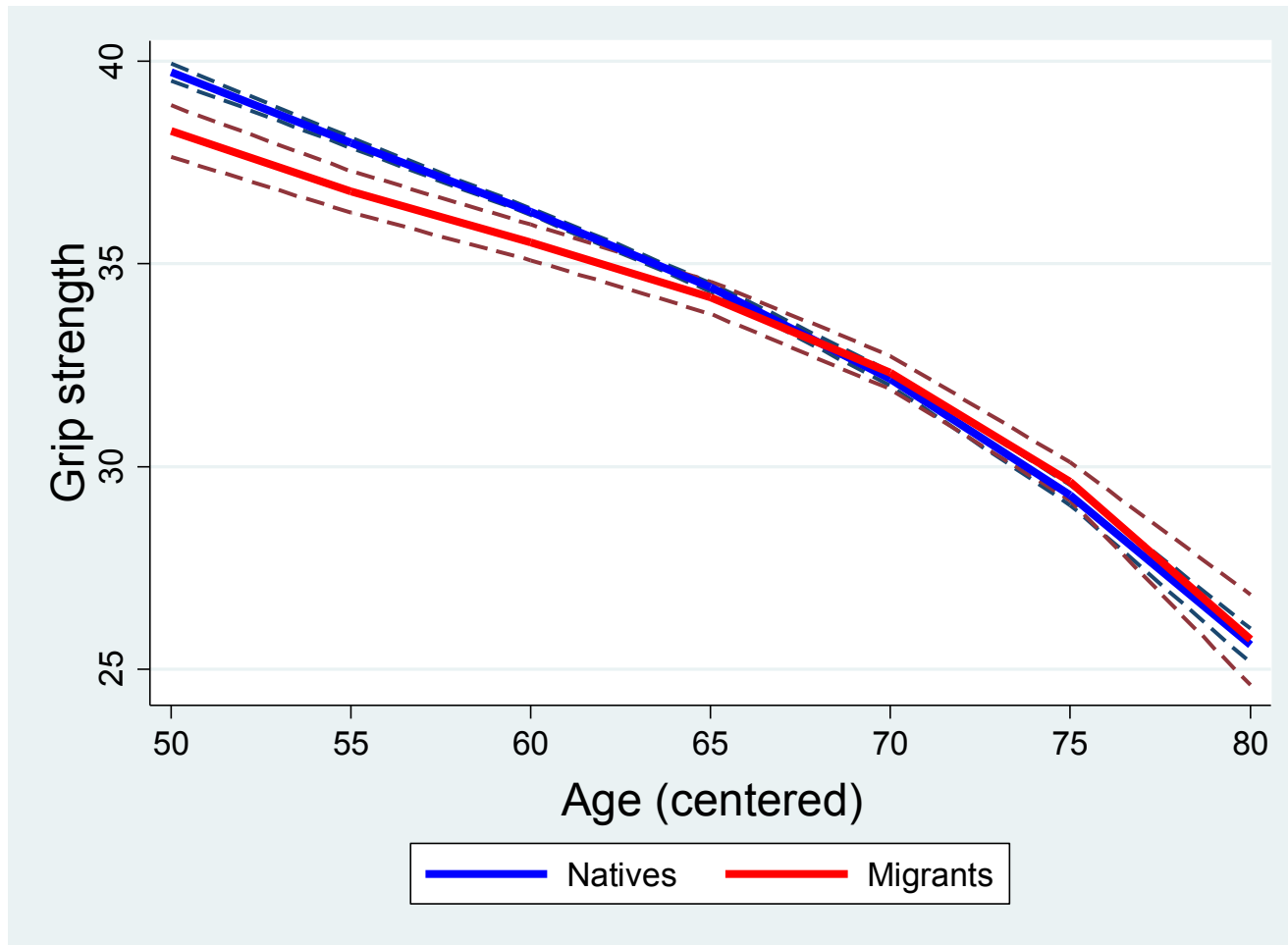
Future steps and ideas

- ▶ Differentiate between EU-migrants and non-EU-migrants
- ▶ Run separate models only for migrant population
- ▶ Include info on second generation and naturalization (wave 5)
- ▶ Analysis by MIPEX subdimensions and/or health care systems

	Natives			Migrants		
	Number of obs.	Percent	Mean (SD)	Number of obs.	Percent	Mean (SD)
Grip strength	105,662		34.7 (12,0)	10,046		34,2 (11,9)
CASP	101,074		38.3 (6,1)	9,454		37.8 (6,1)
Age	113,798		65.3 (9.1)	11,009		64.1 (9.1)
Female	61,599	54.1		6,083	55.3	
Married/reg. partnership	81,602	71.8		7,631	69.5	
Household size	113,798		2.1 (0.9)	11,009		2.1(1.1)
# of children	113,338		2.2 (1.4)	10,941		2.3 (1.6)
ISCED	110,176			10,626		
None	12,614	11.5		1,237	11.6	
ISCED-97 code 1	21,955	19.9		1,502	14.1	
ISCED-97 code 2	18,821	17.1		1,330	12.5	
ISCED-97 code 3	31,702	28.8		3,157	29.7	
ISCED-97 code 4	3,470	3.2		432	4.1	
ISCED-97 code 5	20,050	18.2		2,571	24.2	
ISCED-97 code 6	726	0.7		123	1.2	
Height	112,674		168.4 (9.8)	10,912		167.4 (9.9)
Weight	112,260		75.3 (14.8)	10,865		74.6 (15.0)
Years in host country				10,963		40.5 (17.7)
Citizenship				7,336	66.6	
TOTAL	113,798	91.2		11,009	8.8	23

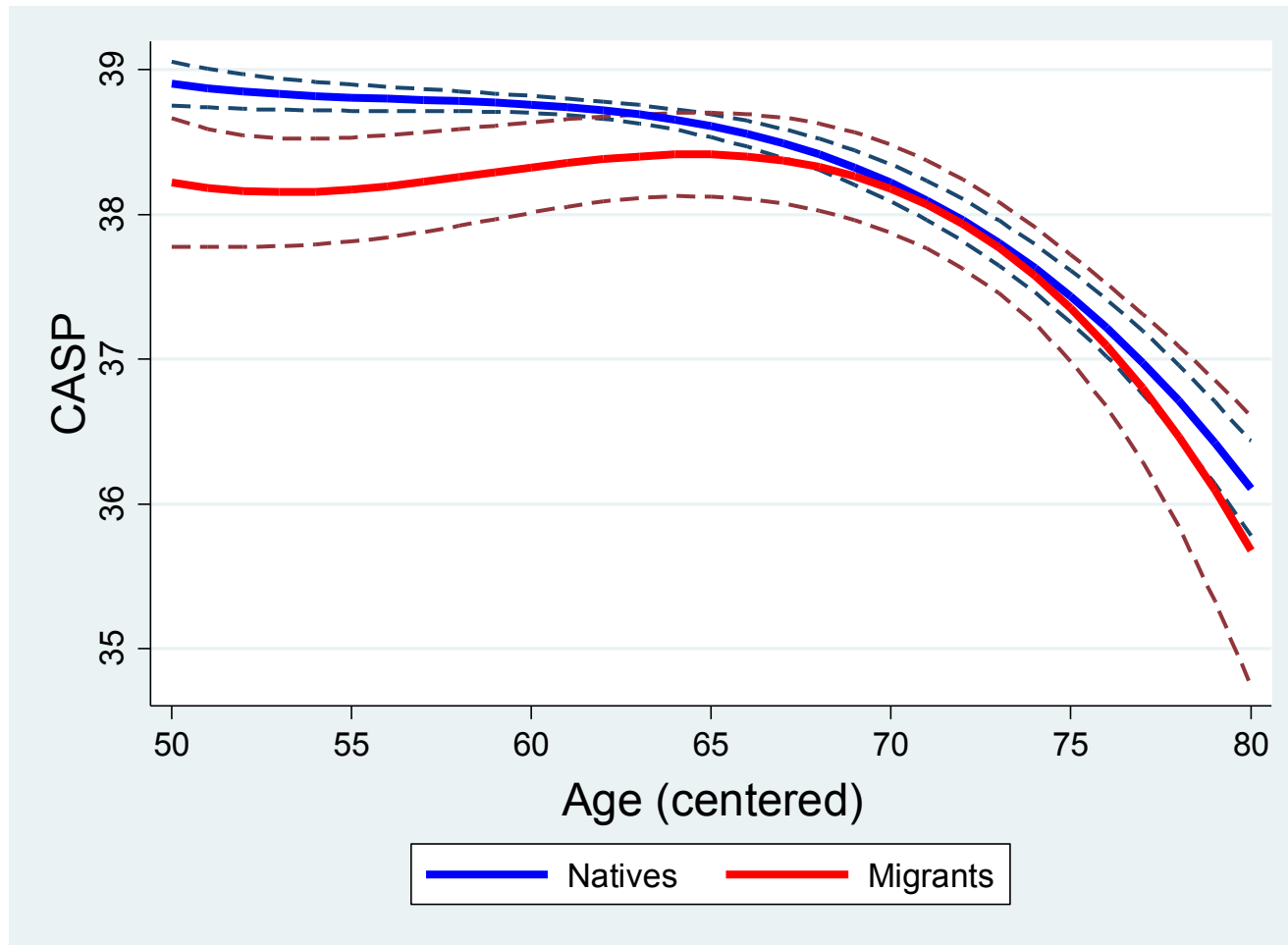
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RE: grip strength (full model)



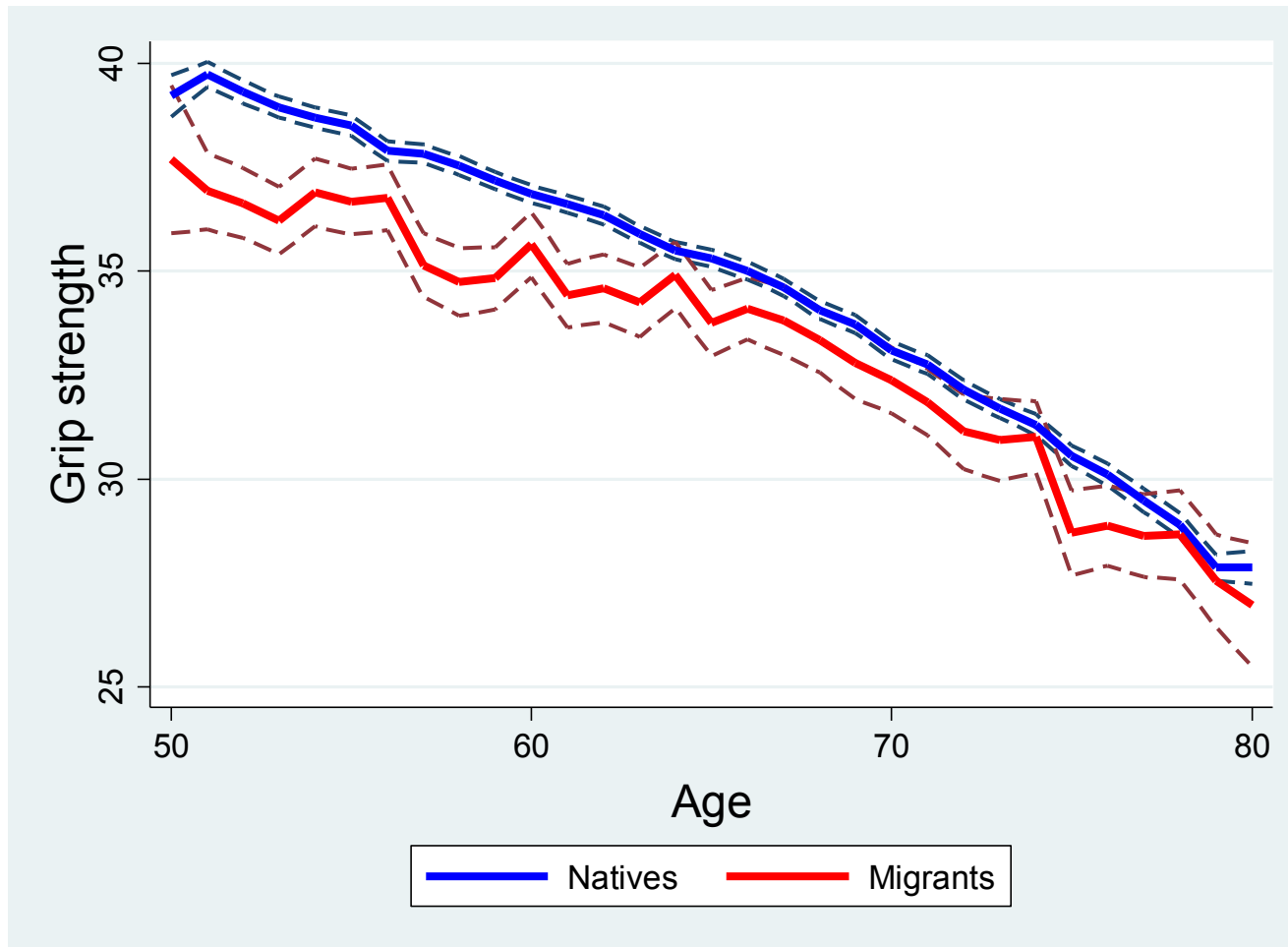
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RE: CASP (full model)



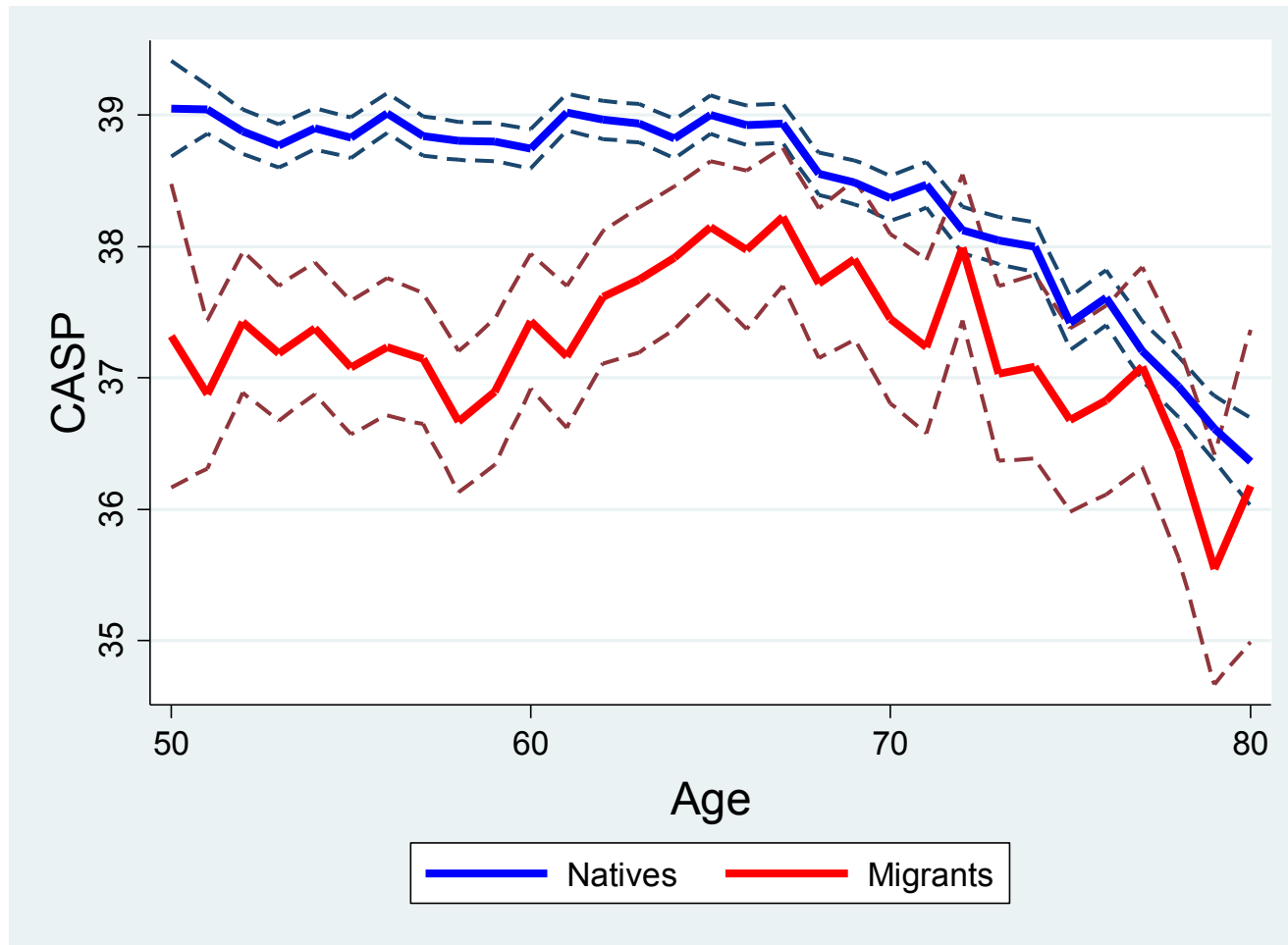


RE: grip strength (empty model; i.age)



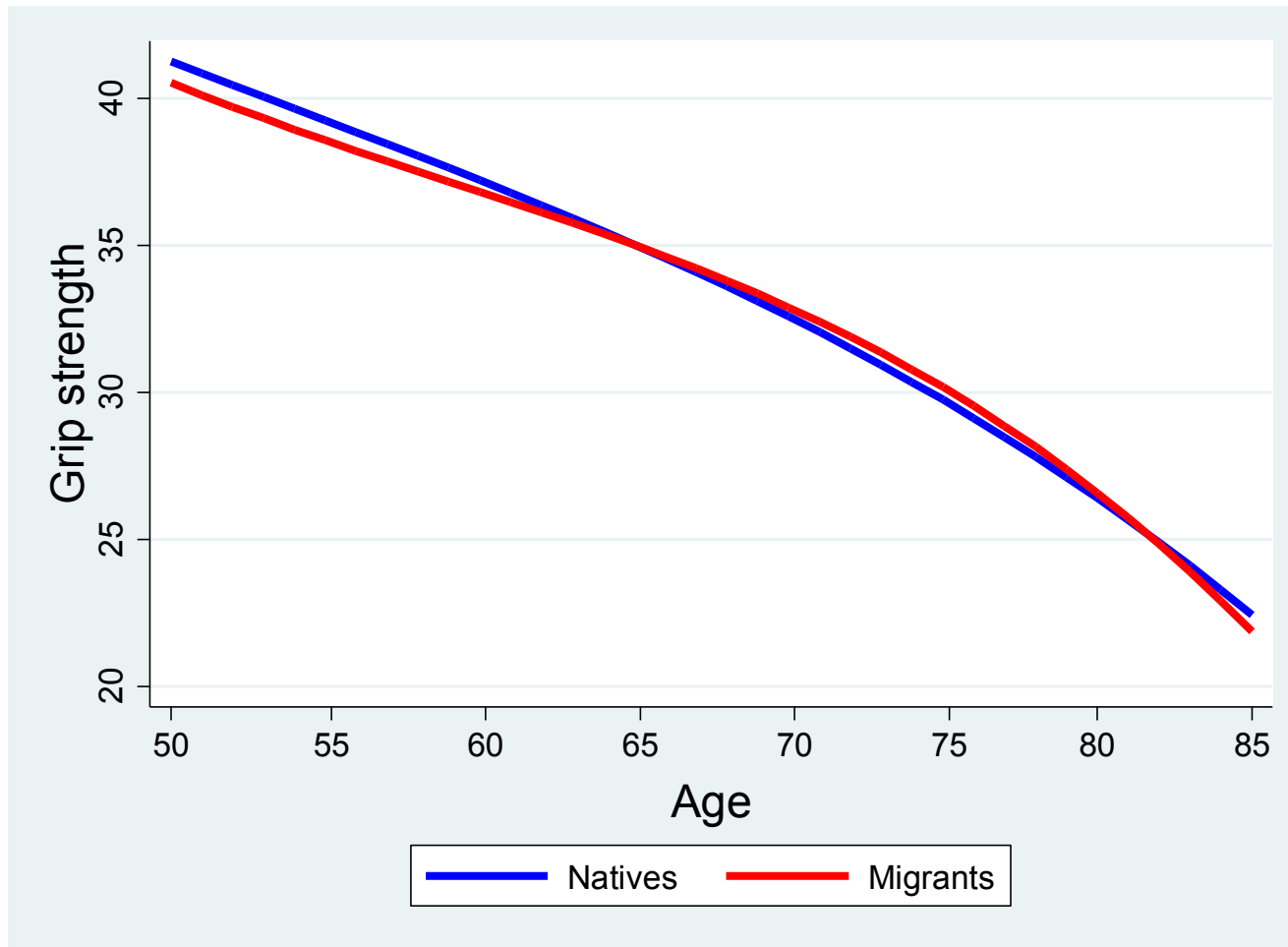
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RE: CASP (empty model; i.age)



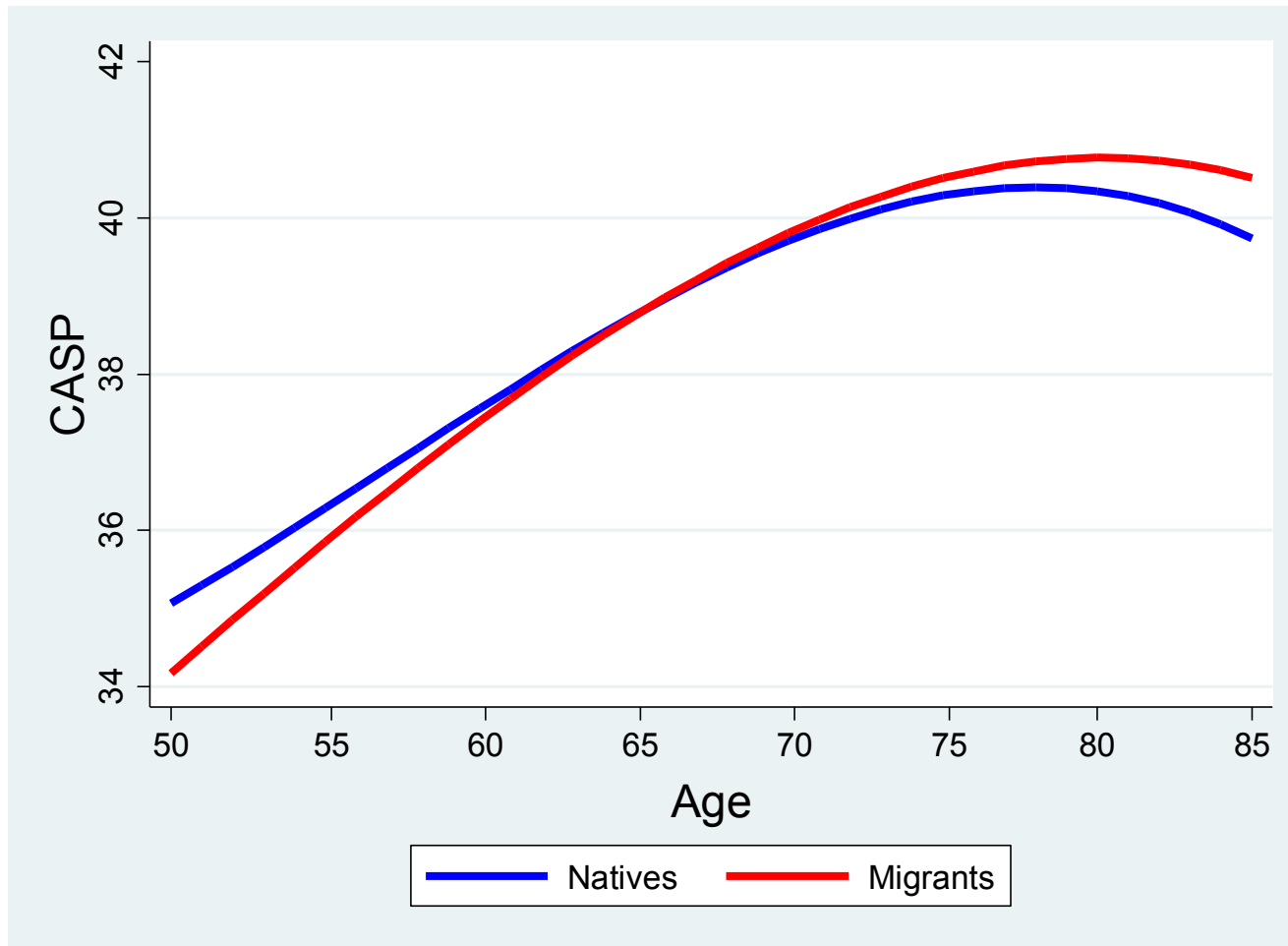
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FE: grip strength





FE: CASP





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Grip strength – inclusive

	(1)	(2)	(3)	(4)	(5)
0b.migrant	0.00	0.00	0.00	0.00	0.00
1.migrant	-0.46 (1.45)	-0.76 (3.29)***	-0.46 (2.10)**	-0.47 (1.89)*	0.49 (1.50)
0b.migrant#c.age_centered	-3.8e-01 (38.63)***	-4.0e-01 (49.78)***	-3.7e-01 (46.42)***	-3.7e-01 (46.42)***	-4.1e-01 (31.27)***
1.migrant#c.age_centered	-0.3 (5.99)***	-0.3 (7.58)***	-0.2 (7.19)***	-0.2 (7.17)***	-0.3 (8.06)***
0b.migrant#c.age_centered#c.age_centered	-0.0 (12.43)***	-0.0 (11.55)***	-0.0 (10.47)***	-0.0 (10.47)***	-0.0 (10.49)***
1.migrant#c.age_centered#c.age_centered	-0.0 (3.10)***	-0.0 (2.13)**	-0.0 (1.95)*	-0.0 (1.94)*	-0.0 (1.85)*
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (2.32)**	-0.0 (2.69)***	-0.0 (2.66)***	-0.0 (2.66)***	-0.0 (2.65)***
1.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (1.81)*	-0.0 (2.46)**	-0.0 (2.45)**	-0.0 (2.45)**	-0.0 (2.61)***
1b.wave	0.0	0.0	0.0	0.0	0.0
2.wave	0.5 (8.57)***	0.6 (9.69)***	0.5 (8.57)***	0.5 (8.57)***	0.5 (8.57)***
4.wave	0.4 (5.69)***	0.5 (6.67)***	0.3 (4.47)***	0.3 (4.47)***	0.3 (4.44)***
5.wave	0.0 (0.24)	0.5 (6.23)***	0.2 (3.00)***	0.2 (3.00)***	0.2 (3.03)***
0b.female	0.0	0.0	0.0	0.0	0.0
1.female	-16.7 (203.03)***	-13.7 (91.03)***	-13.7 (91.04)***	-13.7 (91.13)***	-13.7 (91.13)***
0b.married	0.0	0.0	0.0	0.0	0.0
1.married	0.2 (2.59)***	0.2 (2.24)**	0.2 (2.24)**	0.2 (2.24)**	0.2 (2.21)**
household size	-0.3 (7.02)***	-0.2 (4.31)***	-0.2 (4.31)***	-0.2 (4.31)***	-0.2 (4.23)***
Number of children	0.2 (6.75)***	0.1 (4.47)***	0.1 (4.47)***	0.1 (4.47)***	0.1 (4.53)***
0.isced_r	-1.0 (9.76)***	-0.9 (8.16)***	-0.9 (8.16)***	-0.9 (8.15)***	-0.9 (8.15)***
1b.isced_r	0.0	0.0	0.0	0.0	0.0
2.isced_r	1.2 (13.16)***	1.0 (10.59)***	1.0 (10.59)***	1.0 (10.59)***	1.0 (10.60)***
3.isced_r	2.0 (20.18)***	1.6 (16.01)***	1.6 (16.02)***	1.6 (16.01)***	1.6 (16.01)***
4.isced_r	1.6 (9.41)***	1.3 (7.65)***	1.3 (7.65)***	1.3 (7.63)***	1.3 (7.63)***
5.isced_r	2.1 (19.47)***	1.6 (13.62)***	1.6 (13.62)***	1.6 (13.62)***	1.6 (13.67)***
6.isced_r	1.4 (2.24)**	0.9 (1.52)	0.9 (1.52)	0.9 (1.52)	1.0 (1.62)
95.isced_r	-1.3 (0.92)	-1.3 (0.87)	-1.3 (0.87)	-1.3 (0.87)	-1.3 (0.88)
97.isced_r	1.3 (3.34)***	1.0 (2.56)**	1.0 (2.56)**	1.0 (2.56)**	1.0 (2.66)***
Weight of respondent		0.1 (19.93)***	0.1 (19.93)***	0.1 (19.93)***	0.1 (19.93)***
How tall are you?		0.2 (14.12)***	0.2 (14.12)***	0.2 (14.11)***	0.2 (14.11)***
0b.citizen_bin				0.0	0.0
1.citizen_bin				-0.0 (0.09)	-0.6 (1.61)
# of years in host country					0.0 (4.37)***
Constant	34.2 (356.18)***	41.8 (272.25)***	5.2 (2.56)**	5.2 (2.54)**	2.8 (1.34)
N	57,141	57,141	57,141	57,141	57,141

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



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Grip strength – conditional

	(1)	(2)	(3)	(4)	(5)
0b.migrant	0.00	0.00	0.00	0.00	0.00
1.migrant	-0.46 (1.47)	-0.88 (4.03)***	-0.55 (2.58)***	-0.29 (1.23)	-0.16 (0.54)
0b.migrant#c.age_centered	-3.8e-01 (24.16)***	-3.7e-01 (30.27)***	-3.5e-01 (29.34)***	-3.5e-01 (29.34)***	-3.6e-01 (22.69)***
1.migrant#c.age_centered	-0.2 (4.68)***	-0.2 (6.76)***	-0.2 (6.91)***	-0.2 (7.29)***	-0.2 (7.12)***
0b.migrant#c.age_centered#c.age_centered	-0.0 (7.99)***	-0.0 (8.10)***	-0.0 (7.34)***	-0.0 (7.35)***	-0.0 (7.35)***
1.migrant#c.age_centered#c.age_centered	-0.0 (3.82)***	-0.0 (2.61)***	-0.0 (2.35)**	-0.0 (2.43)**	-0.0 (2.39)**
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (2.44)**	-0.0 (1.63)	-0.0 (1.20)	-0.0 (1.21)	-0.0 (1.21)
1.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (3.38)***	-0.0 (3.18)***	-0.0 (2.94)***	-0.0 (2.81)***	-0.0 (2.78)***
1b.wave	0.0	0.0	0.0	0.0	0.0
2.wave	0.1 (0.81)	0.1 (0.60)	0.0 (0.21)	0.0 (0.25)	0.0 (0.24)
4.wave	-0.4 (3.24)***	-0.6 (5.28)***	-0.7 (6.05)***	-0.7 (5.92)***	-0.7 (5.94)***
5.wave	-0.5 (3.53)***	-0.0 (0.38)	-0.4 (3.74)***	-0.4 (3.59)***	-0.4 (3.59)***
0b.female	0.0	0.0	0.0	0.0	0.0
1.female	-17.0 (145.95)***	-13.9 (78.14)***	-14.0 (78.17)***	-14.0 (78.18)***	-14.0 (78.18)***
0b.married	0.0	0.0	0.0	0.0	0.0
1.married	0.4 (3.13)***	0.4 (2.80)***	0.4 (2.75)***	0.4 (2.74)***	0.4 (2.74)***
household size	0.2 (2.47)**	0.1 (1.84)*	0.1 (1.92)*	0.1 (1.93)*	0.1 (1.93)*
Number of children	0.1 (1.64)	0.0 (1.20)	0.0 (1.23)	0.0 (1.25)	0.1 (1.25)
0.isced_r	-0.5 (3.72)***	-0.4 (2.76)***	-0.4 (2.77)***	-0.4 (2.77)***	-0.4 (2.77)***
1b.isced_r	0.0	0.0	0.0	0.0	0.0
2.isced_r	1.0 (5.74)***	0.7 (4.20)***	0.7 (4.09)***	0.7 (4.10)***	0.7 (4.10)***
3.isced_r	1.4 (11.01)***	1.0 (7.80)***	1.0 (7.61)***	1.0 (7.63)***	1.0 (7.63)***
4.isced_r	2.6 (6.75)***	1.8 (4.54)***	1.7 (4.44)***	1.7 (4.45)***	1.7 (4.45)***
5.isced_r	2.0 (13.02)***	1.5 (9.41)***	1.5 (9.22)***	1.5 (9.24)***	1.5 (9.24)***
6.isced_r	1.6 (5.03)***	1.1 (3.52)***	1.1 (3.44)***	1.1 (3.46)***	1.1 (3.46)***
95.isced_r	-5.4 (0.72)	-5.4 (0.77)	-5.4 (0.79)	-5.4 (0.78)	-5.4 (0.78)
97.isced_r	1.3 (1.94)*	1.3 (2.06)**	1.4 (2.23)**	1.4 (2.29)**	1.4 (2.29)**
Weight of respondent		0.1 (13.67)***	0.1 (13.65)***	0.1 (13.66)***	0.1 (13.66)***
How tall are you?		0.2 (13.90)***	0.2 (13.89)***	0.2 (13.90)***	0.2 (13.90)***
0b.citizen_bin			0.0	0.0	0.0
1.citizen_bin			0.8 (2.45)**	0.8 (2.10)**	0.8 (2.10)**
# of years in host country					0.0 (0.68)
Constant	35.7 (228.12)***	42.6 (184.16)***	6.0 (2.81)***	5.2 (2.41)**	4.8 (2.18)**
N	25,686	25,686	25,686	25,686	25,686

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



Grip strength – restrictive

	(1)	(2)	(3)	(4)	(5)
0b.migrant	0.00	0.00	0.00	0.00	0.00
1.migrant	-1.75 (4.59)***	-1.21 (4.58)***	-1.04 (4.04)***	-1.32 (4.69)***	-0.77 (1.96)*
0b.migrant#c.age_centered	-4.2e-01 (28.48)***	-4.3e-01 (36.97)***	-4.0e-01 (34.52)***	-4.0e-01 (34.51)***	-4.3e-01 (22.90)***
1.migrant#c.age_centered	-0.4 (7.66)***	-0.4 (9.00)***	-0.4 (8.91)***	-0.3 (8.62)***	-0.4 (8.71)***
0b.migrant#c.age_centered#c.age_centered	-0.0 (9.89)***	-0.0 (8.97)***	-0.0 (7.91)***	-0.0 (7.92)***	-0.0 (7.92)***
1.migrant#c.age_centered#c.age_centered	-0.0 (5.34)***	-0.0 (5.03)***	-0.0 (4.44)***	-0.0 (4.45)***	-0.0 (4.44)***
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (0.48)	-0.0 (0.29)	0.0 (0.05)	0.0 (0.05)	0.0 (0.05)
1.migrant#c.age_centered#c.age_centered#c.age_centered	0.0 (0.06)	0.0 (0.38)	0.0 (0.48)	0.0 (0.43)	0.0 (0.49)
1b.wave	0.0	0.0	0.0	0.0	0.0
2.wave	-0.8 (6.90)***	-0.8 (7.15)***	-0.9 (8.25)***	-0.9 (8.27)***	-0.9 (8.27)***
4.wave	-0.1 (0.90)	-0.1 (1.04)	-0.3 (2.91)***	-0.3 (2.94)***	-0.3 (2.93)***
5.wave	0.3 (2.02)**	0.5 (3.96)***	0.2 (1.90)*	0.2 (1.86)*	0.2 (1.87)*
0b.female	0.0	0.0	0.0	0.0	0.0
1.female	-17.2 (144.62)***	-14.5 (75.91)***	-14.5 (75.91)***	-14.5 (75.84)***	-14.5 (75.83)***
0b.married	0.0	0.0	0.0	0.0	0.0
1.married	0.7 (5.02)***	0.6 (5.07)***	0.6 (5.08)***	0.6 (5.08)***	0.6 (5.07)***
household size	0.1 (1.10)	0.1 (1.51)	0.1 (1.52)	0.1 (1.53)	0.1 (1.53)
Number of children	0.1 (2.91)***	0.1 (2.79)***	0.1 (2.78)***	0.1 (2.79)***	0.1 (2.79)***
0.isced_r	-0.1 (0.76)	-0.1 (0.52)	-0.1 (0.48)	-0.1 (0.51)	-0.1 (0.51)
1b.isced_r	0.0	0.0	0.0	0.0	0.0
2.isced_r	0.4 (2.25)**	0.4 (2.34)**	0.4 (2.38)**	0.4 (2.37)**	0.4 (2.37)**
3.isced_r	0.4 (2.40)**	0.4 (2.62)***	0.4 (2.66)***	0.4 (2.66)***	0.4 (2.66)***
4.isced_r	0.6 (2.81)***	0.7 (3.50)***	0.7 (3.51)***	0.7 (3.51)***	0.7 (3.50)***
5.isced_r	0.6 (3.09)***	0.4 (2.51)**	0.5 (2.55)**	0.5 (2.59)***	0.5 (2.59)***
6.isced_r	-0.2 (0.42)	-0.4 (0.66)	-0.4 (0.64)	-0.4 (0.62)	-0.3 (0.62)
95.isced_r	0.3 (0.12)	0.1 (0.02)	0.0 (0.02)	0.0 (0.00)	0.0 (0.00)
97.isced_r	0.8 (2.30)**	0.8 (2.51)**	0.8 (2.54)**	0.8 (2.56)**	0.8 (2.56)**
Weight of respondent		0.1 (16.56)***	0.1 (16.56)***	0.1 (16.54)***	0.1 (16.54)***
How tall are you?		0.1 (9.77)***	0.1 (9.77)***	0.1 (9.77)***	0.1 (9.77)***
0b.citizen_bin			0.0	0.0	0.0
1.citizen_bin			-0.8 (2.00)**	-1.1 (2.58)***	-1.1 (2.58)***
# of years in host country					0.0 (1.90)*
Constant	36.3 (227.11)***	44.2 (185.54)***	13.9 (6.01)***	14.7 (6.27)***	13.2 (5.32)***
N	27,424	27,424	27,424	27,424	27,424

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



mea

CASP – inclusive

	(1)	(2)	(3)	(4)
0b.migrant	0.00	0.00	0.00	0.00
1.migrant	-0.09 (0.46)	-0.45 (2.49)**	-0.24 (1.19)	-0.49 (1.80)*
0b.migrant#c.age_centered	-6.9e-02 (10.06)***	-3.3e-02 (4.88)***	-3.4e-02 (4.89)***	-2.2e-02 (1.96)*
1.migrant#c.age_centered	-0.0 (0.63)	-0.0 (0.20)	-0.0 (0.27)	0.0 (0.06)
0b.migrant#c.age_centered#c.age_centered	-0.0 (12.19)***	-0.0 (8.56)***	-0.0 (8.56)***	-0.0 (8.55)***
1.migrant#c.age_centered#c.age_centered	-0.0 (4.58)***	-0.0 (3.18)***	-0.0 (3.21)***	-0.0 (3.24)***
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (2.81)***	-0.0 (3.99)***	-0.0 (3.99)***	-0.0 (3.99)***
1.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (0.53)	-0.0 (1.02)	-0.0 (1.00)	-0.0 (0.95)
1b.wave	0.0	0.0	0.0	0.0
2.wave	-0.0 (0.61)	-0.1 (1.48)	-0.1 (1.47)	-0.1 (1.47)
4.wave	0.1 (1.58)	-0.2 (2.41)**	-0.2 (2.39)**	-0.2 (2.38)**
5.wave	0.5 (7.72)***	0.9 (12.99)***	0.9 (13.01)***	0.9 (12.99)***
0b.female		0.0	0.0	0.0
1.female		-0.6 (9.21)***	-0.6 (9.24)***	-0.6 (9.25)***
0b.married		0.0	0.0	0.0
1.married		1.3 (17.11)***	1.3 (17.08)***	1.3 (17.09)***
household size		-0.5 (15.05)***	-0.5 (15.05)***	-0.5 (15.06)***
Number of children		0.1 (3.42)***	0.1 (3.43)***	0.1 (3.42)***
0.isced_r		-1.6 (17.27)***	-1.6 (17.25)***	-1.6 (17.26)***
1b.isced_r		0.0	0.0	0.0
2.isced_r		1.4 (17.65)***	1.4 (17.62)***	1.4 (17.61)***
3.isced_r		2.2 (27.34)***	2.2 (27.31)***	2.2 (27.31)***
4.isced_r		1.8 (13.72)***	1.8 (13.70)***	1.8 (13.70)***
5.isced_r		2.9 (34.54)***	2.9 (34.48)***	2.9 (34.47)***
6.isced_r		3.0 (6.99)***	3.0 (7.04)***	3.0 (7.00)***
95.isced_r		-0.6 (0.40)	-0.6 (0.39)	-0.6 (0.39)
97.isced_r		1.9 (6.27)***	1.9 (6.27)***	1.9 (6.24)***
0b.citizen_bin			0.0	0.0
1.citizen_bin			0.6 (2.26)**	0.7 (2.56)**
# of years in host country				-0.0 (1.33)
Constant	37.4 (558.81)***	36.3 (296.82)***	35.8 (123.82)***	36.4 (66.94)***
N	55,004	55,004	55,004	55,004

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



mea

CASP – conditional

	(1)	(2)	(3)	(4)
0b.migrant	0.00	0.00	0.00	0.00
1.migrant	-0.93 (5.23)***	-0.88 (5.08)***	-0.81 (4.26)***	0.09 (0.39)
0b.migrant#c.age_centered	-5.1e-02 (4.93)***	-2.6e-02 (2.51)**	-2.6e-02 (2.52)**	-7.4e-02 (5.74)***
1.migrant#c.age_centered	0.0 (0.68)	0.0 (1.33)	0.0 (1.19)	-0.0 (0.83)
0b.migrant#c.age_centered#c.age_centered	-0.0 (9.79)***	-0.0 (7.84)***	-0.0 (7.84)***	-0.0 (7.87)***
1.migrant#c.age_centered#c.age_centered	-0.0 (3.55)***	-0.0 (3.01)***	-0.0 (3.03)***	-0.0 (2.74)***
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (1.22)	-0.0 (0.83)	-0.0 (0.83)	-0.0 (0.82)
1.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (1.85)*	-0.0 (1.57)	-0.0 (1.52)	-0.0 (1.23)
1b.wave	0.0	0.0	0.0	0.0
2.wave	0.4 (3.94)***	0.4 (4.08)***	0.4 (4.10)***	0.4 (4.03)***
4.wave	1.0 (8.82)***	1.0 (8.75)***	1.0 (8.78)***	1.0 (8.68)***
5.wave	1.7 (15.51)***	2.1 (18.84)***	2.1 (18.85)***	2.1 (18.84)***
0b.female	0.0	0.0	0.0	0.0
1.female	-0.1 (1.52)	-0.1 (1.52)	-0.1 (1.53)	-0.1 (1.44)
0b.married	0.0	0.0	0.0	0.0
1.married	1.6 (13.96)***	1.6 (13.96)***	1.6 (13.94)***	1.6 (13.91)***
householdsize	-0.1 (2.15)**	-0.1 (2.12)**	-0.1 (2.12)**	-0.1 (2.09)**
Number of children	-0.1 (1.86)*	-0.1 (1.85)*	-0.1 (1.85)*	-0.1 (1.75)*
0.isced_r	-0.8 (5.80)***	-0.8 (5.81)***	-0.8 (5.81)***	-0.8 (5.77)***
1b.isced_r	0.0	0.0	0.0	0.0
2.isced_r	0.2 (1.33)	0.2 (1.30)	0.2 (1.30)	0.2 (1.41)
3.isced_r	0.8 (7.84)***	0.8 (7.77)***	0.8 (7.77)***	0.8 (7.93)***
4.isced_r	1.8 (6.48)***	1.8 (6.44)***	1.8 (6.44)***	1.8 (6.56)***
5.isced_r	2.2 (17.93)***	2.2 (17.84)***	2.2 (17.84)***	2.2 (18.09)***
6.isced_r	2.8 (9.16)***	2.8 (9.13)***	2.8 (9.13)***	2.9 (9.25)***
95.isced_r	-3.4 (0.85)	-3.4 (0.86)	-3.4 (0.86)	-3.3 (0.84)
97.isced_r	1.8 (2.74)***	1.8 (2.78)***	1.8 (2.78)***	2.2 (3.23)***
0b.citizen_bin	0.0	0.0	0.0	0.0
1.citizen_bin	0.2 (0.82)	0.2 (0.82)	0.2 (0.82)	-0.2 (0.91)
# of years in host country	0.0	0.0	0.0	0.0
Constant	37.8 (329.30)***	36.1 (186.99)***	35.8 (110.71)***	33.1 (60.63)***
N	23,671	23,671	23,671	23,671

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



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CASP – restrictive

	(1)	(2)	(3)	(4)
0b.migrant	0.00	0.00	0.00	0.00
1.migrant	-1.73 (8.36)***	-1.78 (8.79)***	-1.50 (6.55)***	-0.91 (3.01)***
0b.migrant#c.age_centered	-3.7e-02 (4.21)***	-2.4e-02 (2.77)***	-2.5e-02 (2.79)***	-5.4e-02 (3.80)***
1.migrant#c.age_centered	0.1 (2.20)**	0.1 (2.52)**	0.1 (2.19)**	0.0 (1.04)
0b.migrant#c.age_centered#c.age_centered	-0.0 (13.26)***	-0.0 (11.95)***	-0.0 (11.94)***	-0.0 (11.94)***
1.migrant#c.age_centered#c.age_centered	-0.0 (2.15)**	-0.0 (1.76)*	-0.0 (1.79)*	-0.0 (1.79)*
0b.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (3.11)***	-0.0 (2.98)***	-0.0 (2.98)***	-0.0 (2.98)***
1.migrant#c.age_centered#c.age_centered#c.age_centered	-0.0 (1.95)*	-0.0 (2.03)**	-0.0 (1.96)**	-0.0 (1.85)*
1b.wave	0.0	0.0	0.0	0.0
2.wave	0.4 (3.70)***	0.3 (2.62)***	0.3 (2.64)***	0.3 (2.63)***
4.wave	0.9 (8.81)***	0.6 (6.56)***	0.6 (6.60)***	0.6 (6.59)***
5.wave	1.3 (13.30)***	1.5 (15.03)***	1.5 (15.10)***	1.5 (15.10)***
0b.female		0.0	0.0	0.0
1.female		-0.0 (0.58)	-0.1 (0.74)	-0.1 (0.72)
0b.married		0.0	0.0	0.0
1.married		1.2 (12.04)***	1.2 (12.02)***	1.2 (12.00)***
household size		-0.1 (2.62)***	-0.1 (2.63)***	-0.1 (2.62)***
Number of children		0.1 (4.50)***	0.1 (4.53)***	0.1 (4.53)***
0.isced_r		-0.0 (0.05)	-0.0 (0.07)	-0.0 (0.11)
1b.isced_r		0.0	0.0	0.0
2.isced_r		0.6 (4.15)***	0.6 (4.12)***	0.6 (4.10)***
3.isced_r		1.0 (8.06)***	1.0 (8.03)***	1.0 (8.02)***
4.isced_r		1.9 (11.59)***	1.9 (11.60)***	1.9 (11.59)***
5.isced_r		1.7 (12.63)***	1.7 (12.60)***	1.7 (12.65)***
6.isced_r		1.7 (4.89)***	1.7 (4.87)***	1.7 (4.89)***
95.isced_r		-0.5 (0.47)	-0.4 (0.48)	-0.5 (0.52)
97.isced_r		0.9 (3.42)***	0.9 (3.38)***	0.9 (3.41)***
0b.citizen_bin			0.0	0.0
1.citizen_bin			0.8 (2.65)***	0.4 (1.24)
# of years in host country				0.0 (2.66)***
Constant	40.2 (398.73)***	38.4 (208.84)***	37.6 (107.70)***	36.0 (53.53)***
N	27,782	27,782	27,782	27,782

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$



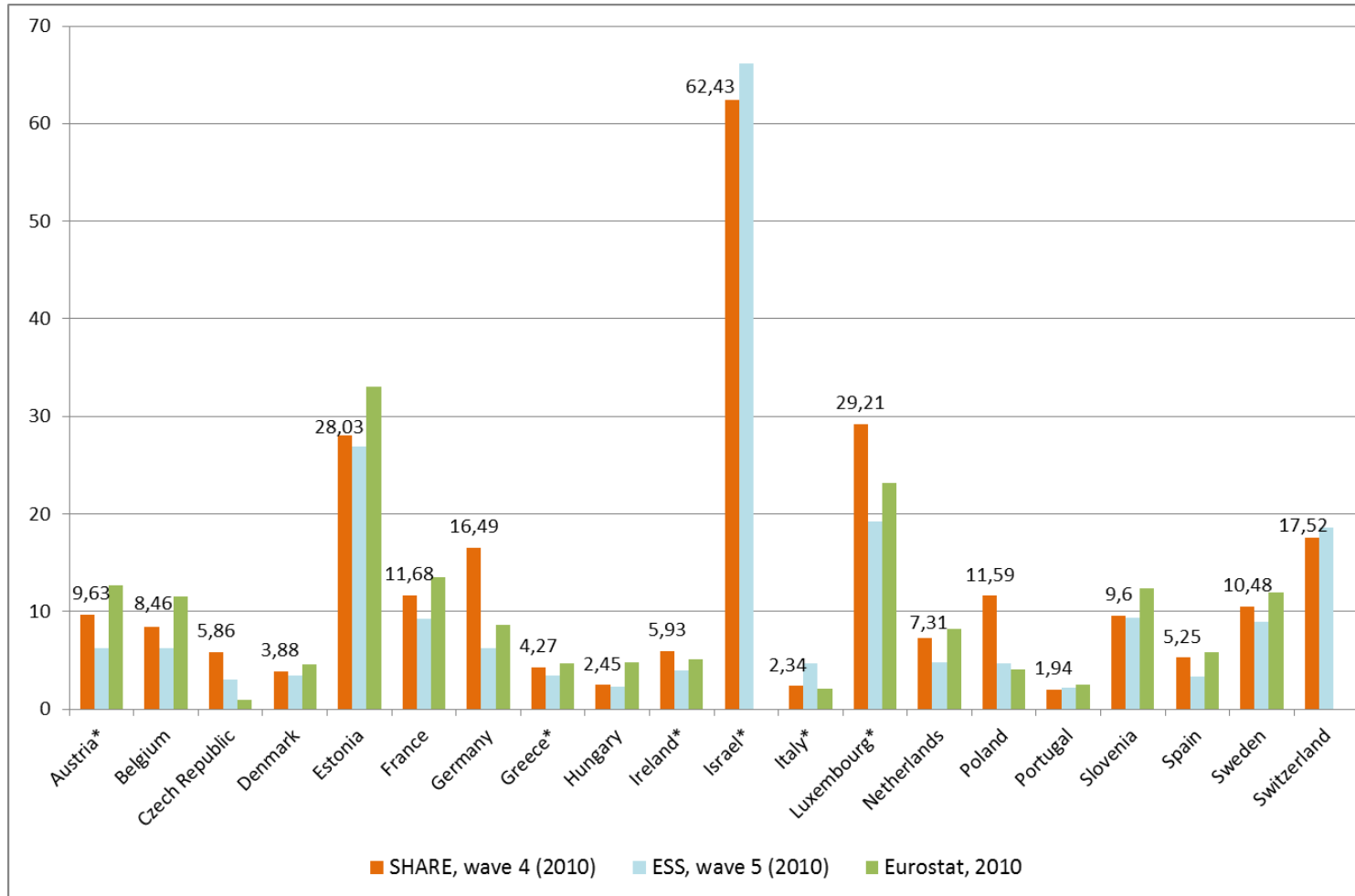
Hypotheses

1. Socioeconomic disadvantage and migration-related stressors
→ worse health of migrants
2. Integration as a process that develops over time and across generations
→ multiple possible pathways
3. Institutional context determines to what extent migrants are integrated in host society
→ association between health differences and institutional context



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The Migrant Population in SHARE



*AT: ESS w4
 *GR: SHARE w3
 *IE: SHARE w2
 *IL: SHARE w5
 *IT: ESS w6
 *LU: SHARE w5
 ESS w2



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Migrants and their origins

Country identifier	Africa %	Middle & Northern Europe %	Eastern Europe %	Russia & former USSR %	Southern Europe %	Arabic Countries %	Rest %	Total %
Austria	1.8	7.8	6.9	1.7	4.3	2.2	2.4	4.7
Germany	2.4	12.5	19.4	8.8	8.9	0.9	8.6	11.1
Sweden	2.5	13.1	3.4	0.6	1.6	2.3	4.8	4.6
Netherlands	10.4	3.9	0.6	0.1	2.8	3.2	16.6	3.5
Spain	2.9	2.8	1.1	0.5	0.9	5.3	14.9	3.1
Italy	2.0	1.4	0.5	0.3	0.4	0.7	2.1	0.9
France	22.5	5.1	1.3	0.5	17.9	27.5	9.2	8.5
Denmark	1.3	3.7	0.7	0.2	1.0	1.7	6.1	1.9
Greece	0.2	0.2	0.7	0.4	2.4	0.6	1.9	0.8
Switzerland	2.9	16.5	3.5	0.5	14.5	1.6	5.9	6.8
Belgium	22.5	13.3	1.7	0.7	20.0	6.4	5.3	7.8
Israel	11.3	5.1	22.1	18.8	4.5	46.7	13.1	17.6
Czech Republic	0.2	1.2	12.1	0.7	0.1	0.0	0.3	3.5
Poland	0.0	0.9	0.5	1.2	0.1	0.0	0.0	0.5
Ireland	0.7	2.0	0.2	0.0	0.0	0.1	1.2	0.6
Luxembourg	6.9	8.7	0.9	0.3	18.7	0.8	1.1	4.7
Hungary	0.0	0.2	1.5	0.2	0.1	0.0	0.1	0.5
Portugal	9.3	0.1	0.0	0.0	0.3	0.0	1.8	0.6
Slovenia	0.0	1.1	11.8	0.8	1.4	0.0	0.0	3.6
Estonia	0.2	0.6	11.3	63.5	0.0	0.0	4.8	14.7
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



Motivation

Elderly Foreigners in Germany, 1970 to 2010

	Total share of Foreigners	50-64 yrs	65-79 yrs	Over 80 yrs
1970	4,5	5,1	1,6	0,3
1975	6,3	5,6	1,7	0,3
1980	7,4	6,7	2,0	0,5
1985	7,3	9,3	2,4	0,8
1990	7,0	11,3	2,2	0,4
1995	9,0	12,0	2,7	0,6
2000	8,8	14,7	4,0	0,8
2005	8,9	16,0	6,1	1,3
2010	8,8	17,4	8,0	1,8

Source: Statistisches Bundesamt 2011



CASP index

- ▶ **AC014_AgePrev → Subscale Control**

- ▶ How often do you think your age prevents you from doing the things you would like to do? (Often, sometimes, rarely or never?)

- ▶ **AC015_OutofContr → Subscale Control**

- ▶ How often do you feel that what happens to you is out of your control? (Often, sometimes, rarely or never?)

- ▶ **AC016_LeftOut → Subscale Control**

- ▶ How often do you feel left out of things? (Often, sometimes, rarely or never?)

- ▶ **AC017_DoWant → Subscale Autonomy**

- ▶ How often do you think that you can do the things that you want to do? (Often, sometimes, rarely or never?)

- ▶ **AC018_FamRespPrev → Subscale Autonomy**

- ▶ How often do you think that family responsibilities prevent you from doing what you want to do? (Often, sometimes, rarely or never?)

- ▶ **AC019_ShortMon → Subscale Autonomy**

- ▶ How often do you think that shortage of money stops you from doing the things you want to do? (Often, sometimes, rarely or never?)



CASP index

- ▶ **AC020_EachDay → Subscale Pleasure**

- ▶ How often do you look forward to each day? (Often, sometimes, rarely or never?)

- ▶ **AC021_LifeMean → Subscale Pleasure**

- ▶ How often do you feel that your life has meaning? (Often, sometimes, rarely or never?)

- ▶ **AC022_BackHapp → Subscale Pleasure**

- ▶ How often, on balance, do you look back on your life with a sense of happiness? (Often, sometimes, rarely or never?)

- ▶ **AC023_FullEnerg → Subscale Self-Realization**

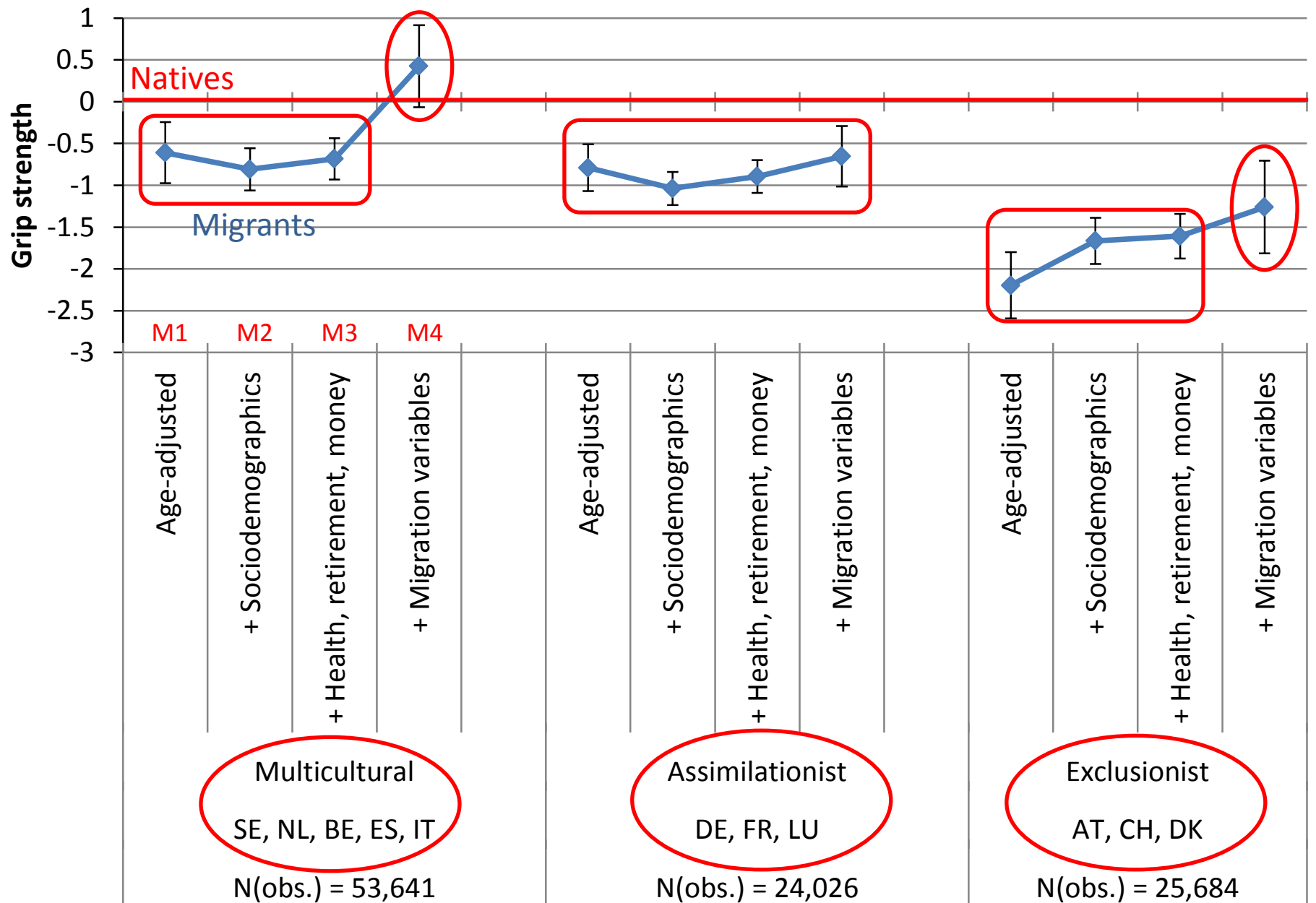
- ▶ How often do you feel full of energy these days? (Often, sometimes, rarely or never?)

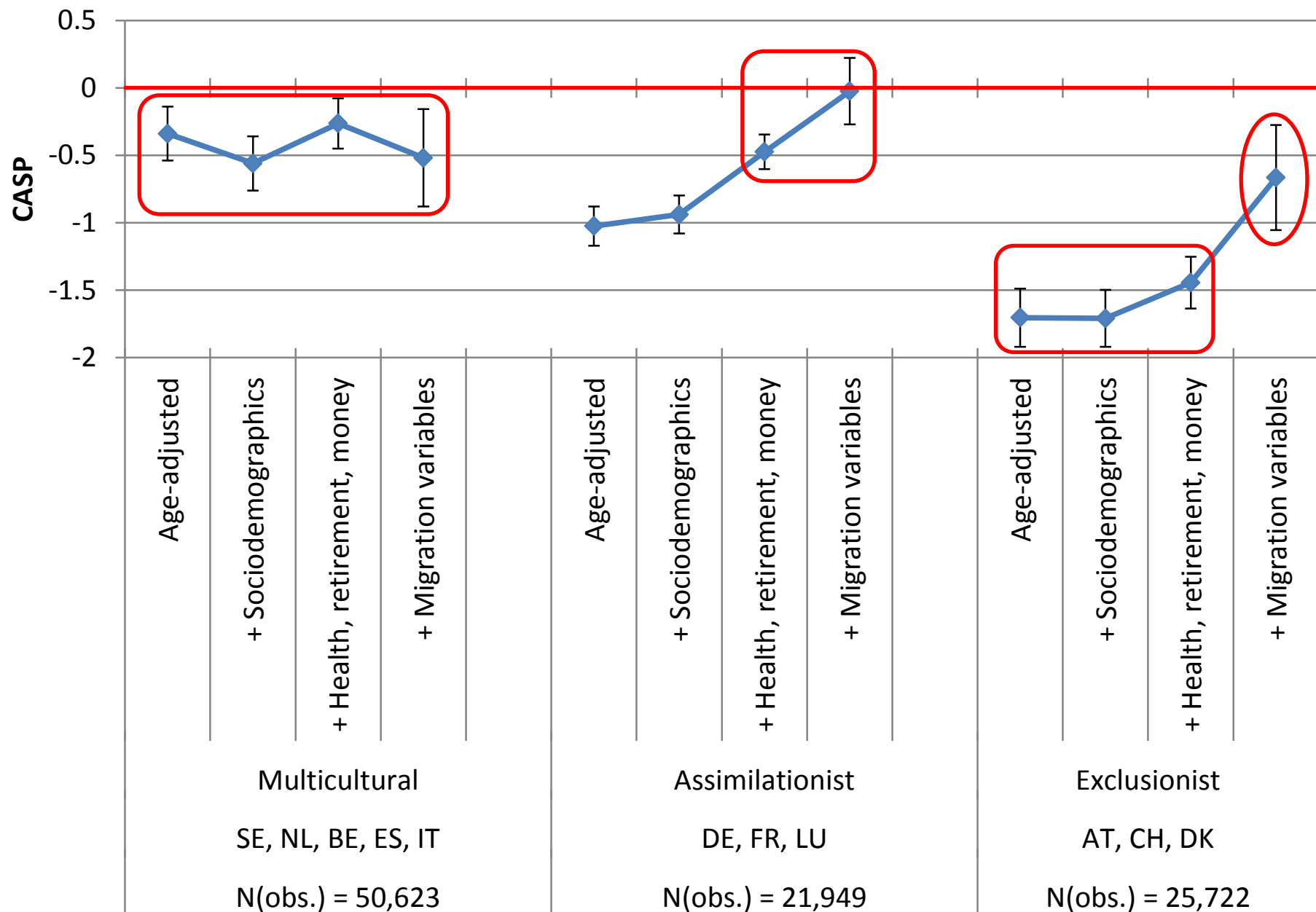
- ▶ **AC024_FullOpport → Subscale Self-Realization**

- ▶ How often do you feel that life is full of opportunities? (Often, sometimes, rarely or never?)

- ▶ **AC025_FutuGood → Subscale Self-Realization**

- ▶ How often do you feel that the future looks good for you? (Often, sometimes, rarely or never?)







Future steps and ideas

- ▶ Differentiate between EU-migrants and non-EU-migrants
- ▶ Run separate models only for migrant population
- ▶ Include info on second generation and naturalization (wave 5)
- ▶ Analysis by MIPEX subdimensions and/or health care systems
- ▶ Account for contexts of country of origin
- ▶ Focus on specific migrant groups to minimize heterogeneity
- ▶ Separate analysis for Eastern bloc states
- ▶ More theory-guided approach to explain health inequalities
- ▶ Health care utilization as DV