

# **The Survey of Health, Ageing and Retirement in Europe: a tool for analysing health inequalities in Europe ?**

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# Survey characteristics

- 1. Face-to-face survey of individuals aged 50 and over**
- 2. International**
  - In 18 European countries + Israël
  - Closed to HRS (USA) et ELSA (UK) + China (CHARLS) + Japan (JSTAR) + India (LASI) + South America (SABE)
- 3. Longitudinal**
  - Panel
  - Retrospectif questionnaire on life history -SHARE LIFE- in wave 3 and 7

Wave 1 : 2004/05  
11 countries ,  
31 400 respondents

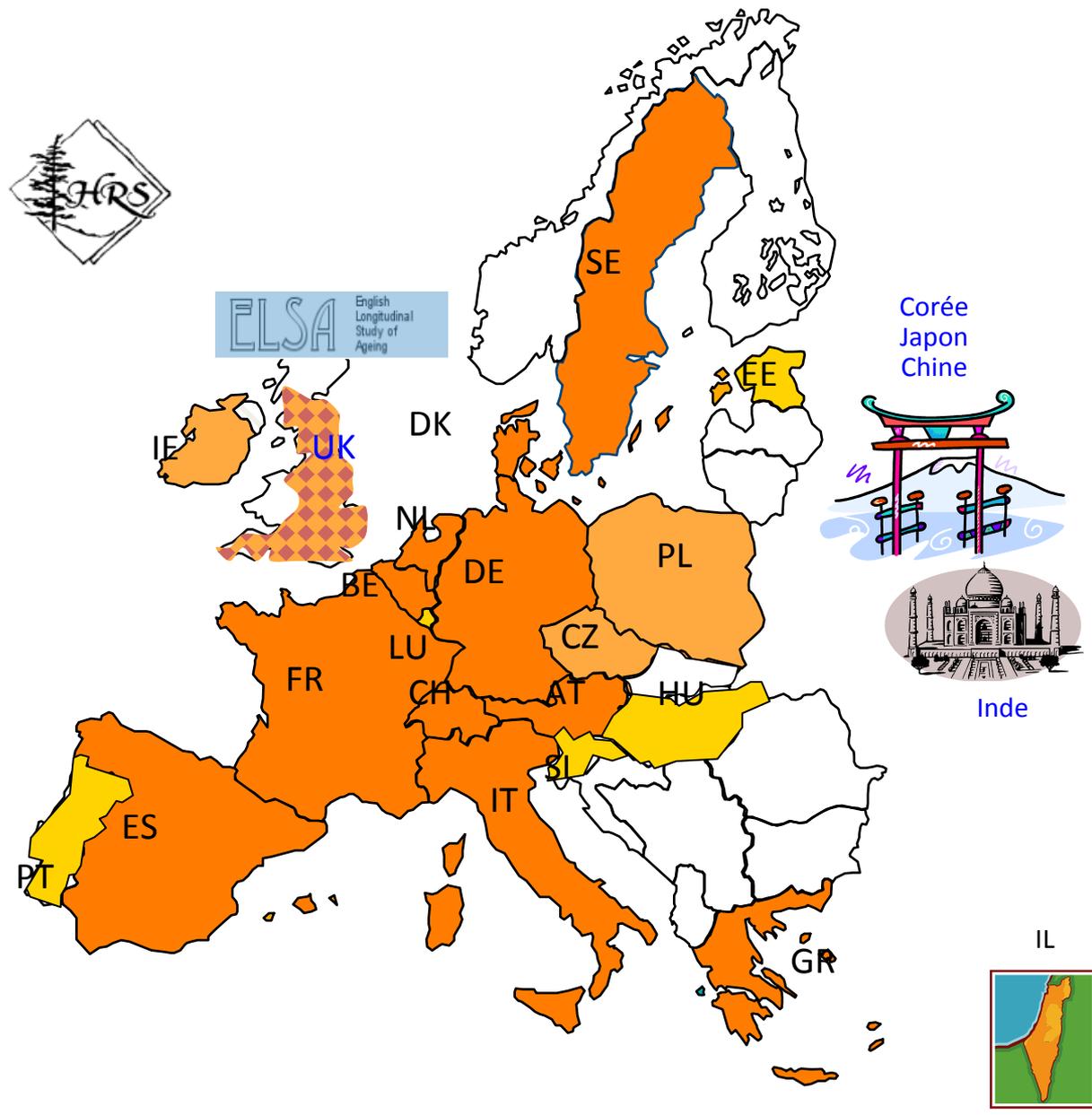
Wave 2 : 2006/07  
15 countries  
34 400 respondents

Wave 3 : 2008/09  
15 pays  
26 800 respondents

Wave 4 : 2010/11  
16 countries  
58 500 respondents

Wave 5 : 2012-2013  
18 countries  
65 000 respondents

Wave 6: 2014-2015  
18 countries + Israël  
68 000 respondents



Wave 7: 2016-2017:  
28 countries

# Survey characteristics

## 4. Multidisciplinary survey

- Labor, retirement, income, wealth, transferts
- Education, family relationships, social networks
- Physical and mental health, cognitive limitations, mortality

## 5. For research

- Free access to data on [www.share-project.org](http://www.share-project.org)
- 2600 researchers, >800 articles

**Table 2: Health indicators available from Europe-wide surveys**

	Health indicator	ECHP	EU-SILC	SHARE	
	Most subjective	Self-assessed health (very good,...very bad)	X	X	X
		Chronic illness/condition	X	X	X
		Limited activities	X	X	X
		Symptoms			X
		Depression scale			X
		Activities of Daily Living			X
		Diagnosed conditions			X
		Body Mass Index (reported)	X <sup>a</sup>		X
		Physical measurements (grip strength, walking speed)			X
	Most objective	Mortality	X		X

Note: a 1998–2001 only and not for France, Germany, Luxembourg, The Netherlands and the UK.

Owen O’Donnell (2009) , Measuring health inequalities in Europe - Methodological issues in the analysis of survey data  
*Eurohealth Vol 15 No 3*

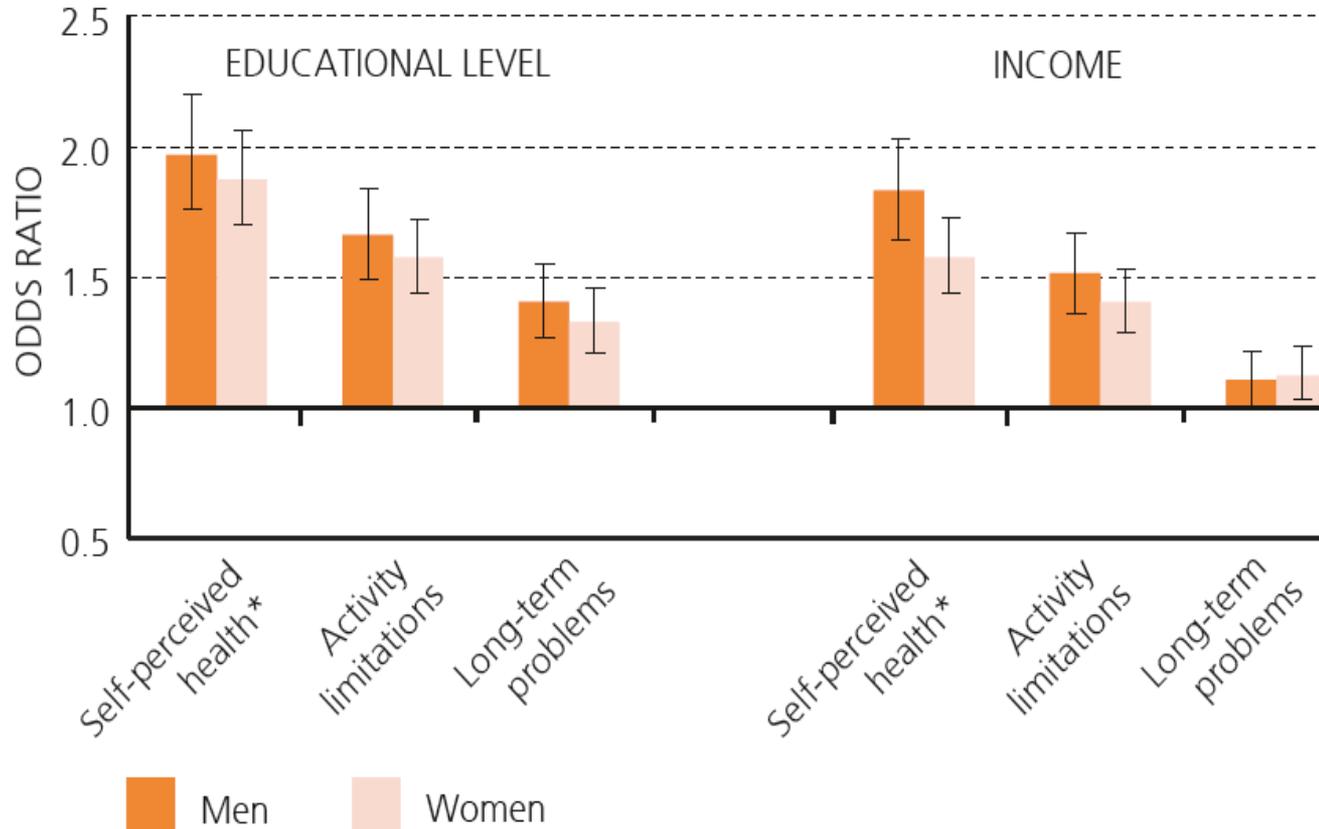
# Survey characteristics

- + tests cognitive limitations
- + blood analysis
- + dental health
  
- + health care use and unmet needs
  
- + long term care
  
- + health-related behaviors

# Survey characteristics

- **Income**
- **Education**
- **Occupation**
  
- **Wealth**
  
- **Country of birth and nationality**
  
- **Social participation, social network**
  
- **Social background: parents' occupation, childhood conditions**

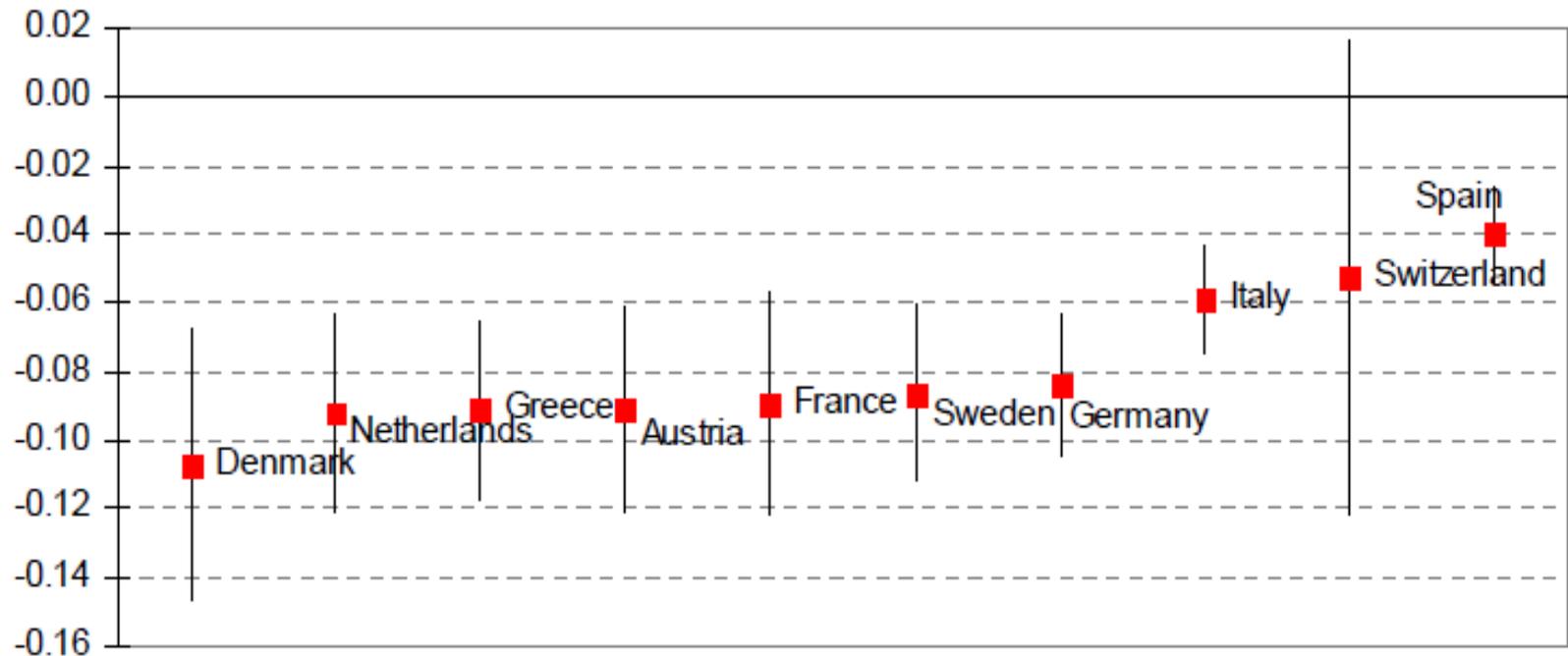
# Health inequalities related to current socioeconomic status



Börsch-Supan A. et al (2005), First results book from Share Wave 1

# Health inequalities related to current socioeconomic status

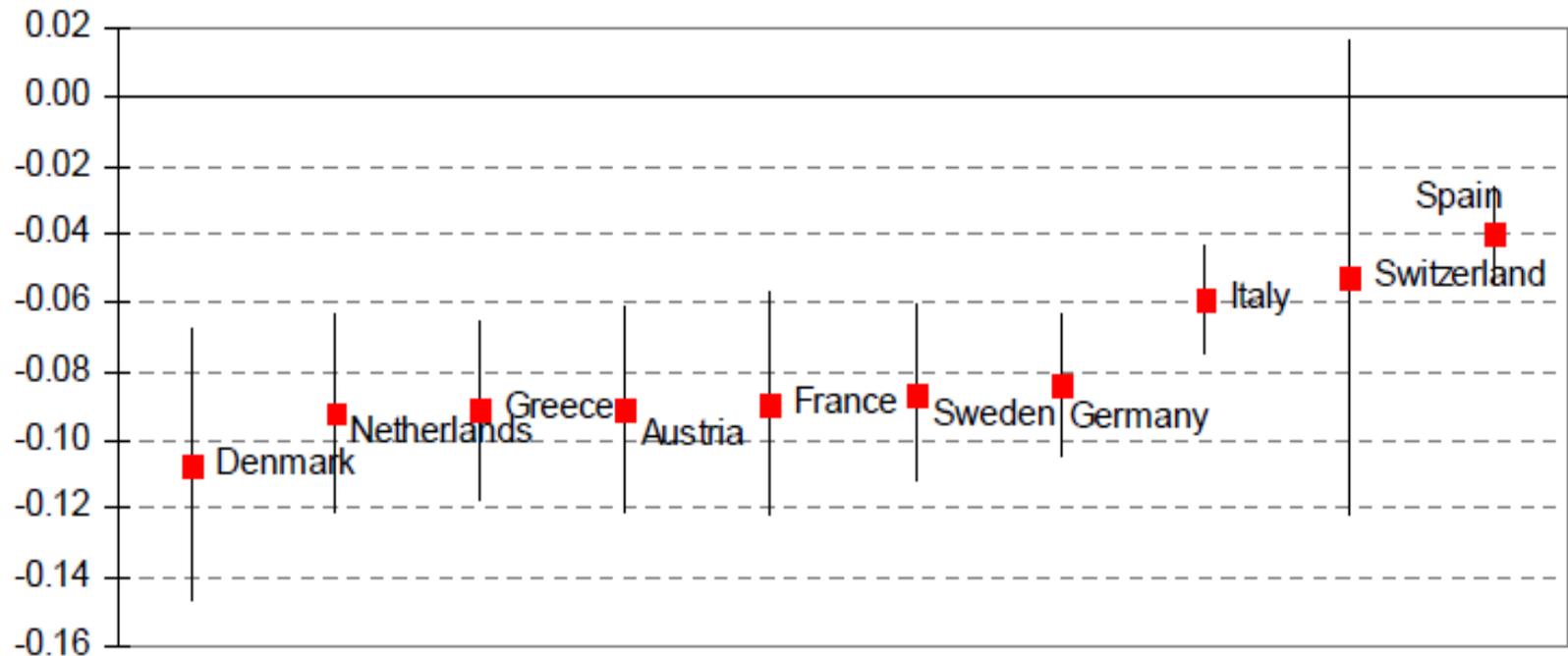
Figure 3 Education-related inequality in ill-health



Measurement of socioeconomic inequality in health in 10 European countries: An exploratory analysis of SHARE using three approaches (2006) by Cristina Masseria, Elias Mossialos and Sara Allin

# Health inequalities related to current socioeconomic status

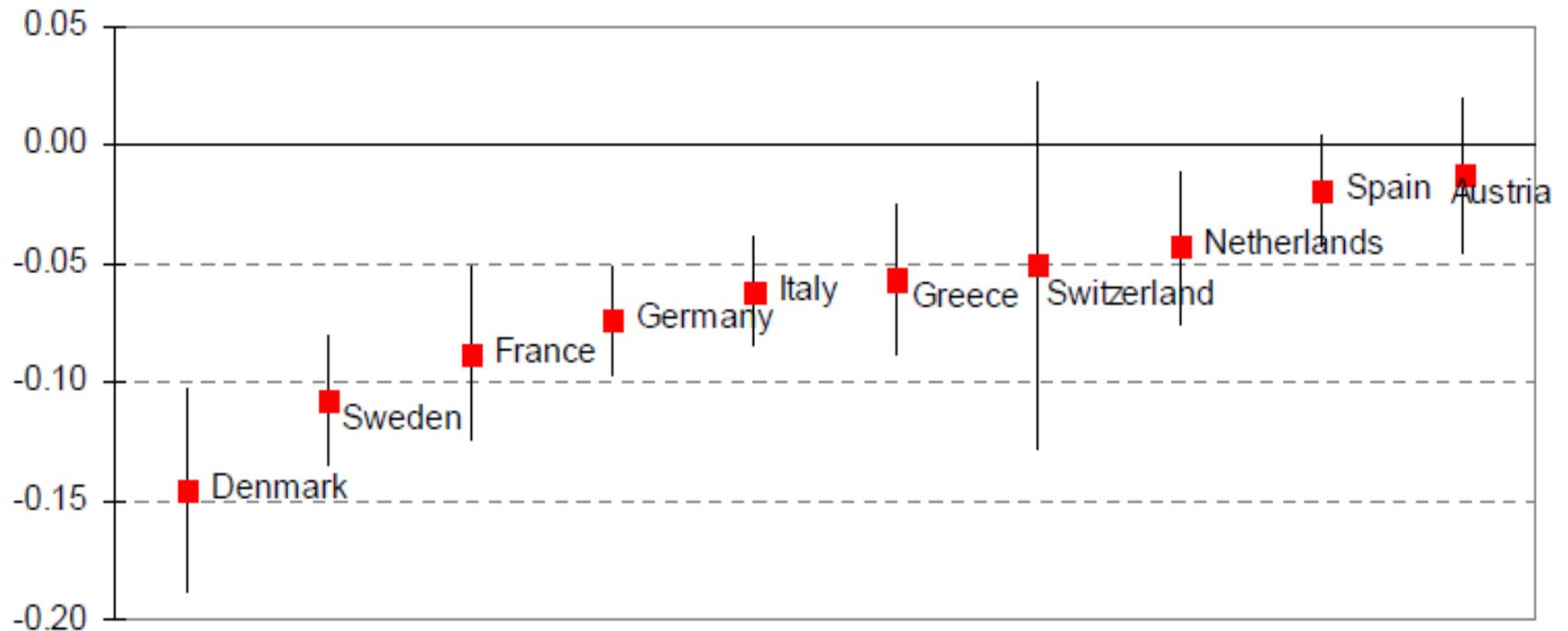
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# Health inequalities related to current socioeconomic status

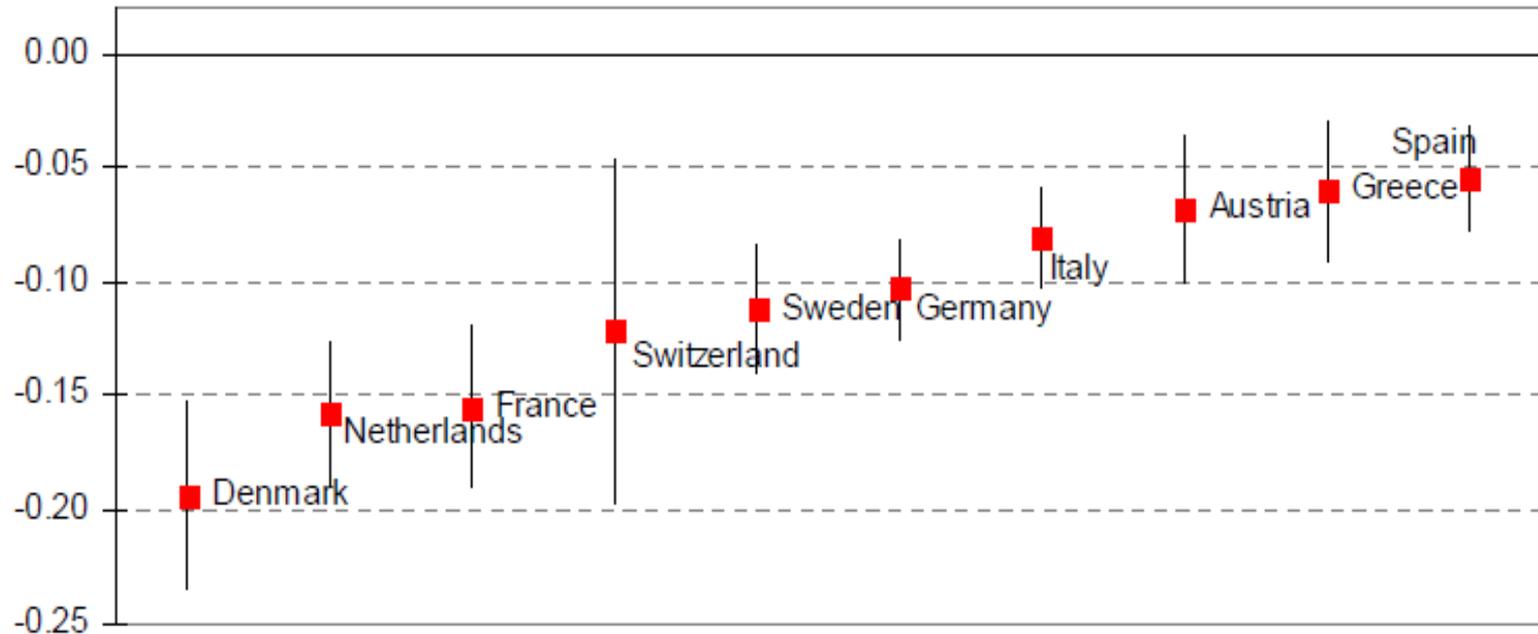
Figure 4 Income-related inequality in ill-health



Measurement of socioeconomic inequality in health in 10 European countries: An exploratory analysis of SHARE using three approaches (2006) by Cristina Masseria, Elias Mossialos and Sara Allin

# Health inequalities related to current socioeconomic status

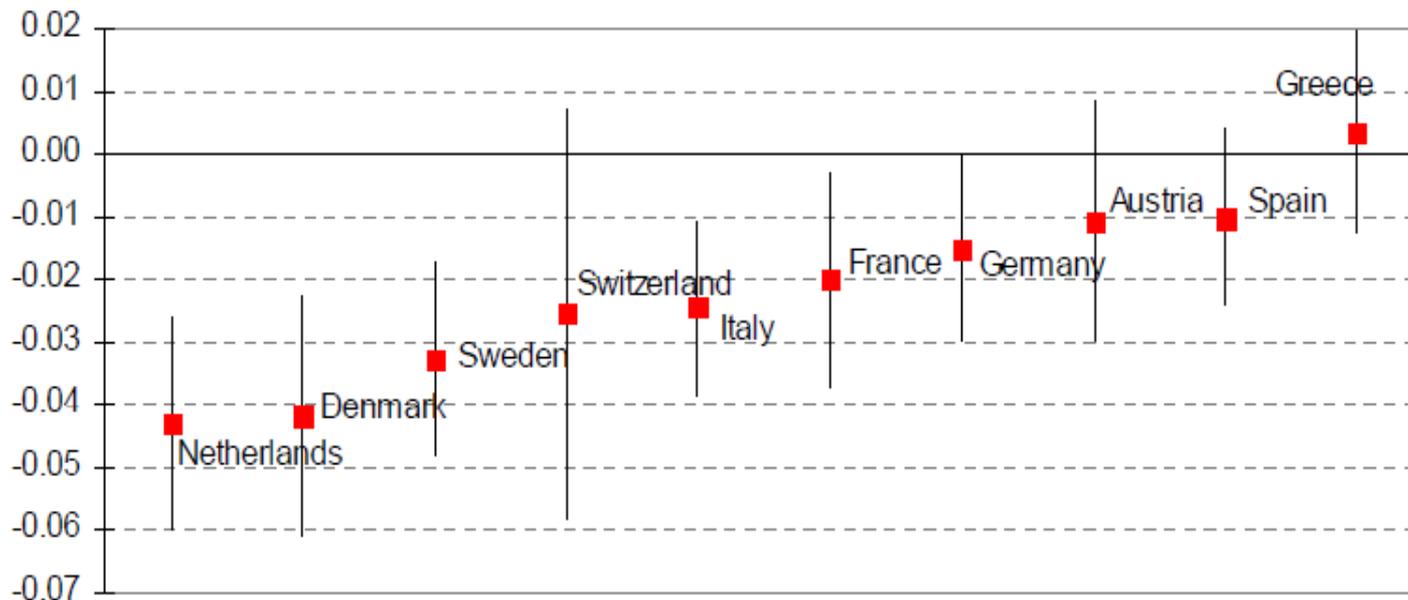
Figure 5 Wealth-related inequality in ill-health



Measurement of socioeconomic inequality in health in 10 European countries: An exploratory analysis of SHARE using three approaches (2006) by Cristina Masseria, Elias Mossialos and Sara Allin

# Health inequalities related to current socioeconomic status

Figure 9 Wealth-related inequality in chronic conditions



Measurement of socioeconomic inequality in health in 10 European countries: An exploratory analysis of SHARE using three approaches (2006) by Cristina Masseria, Elias Mossialos and Sara Allin

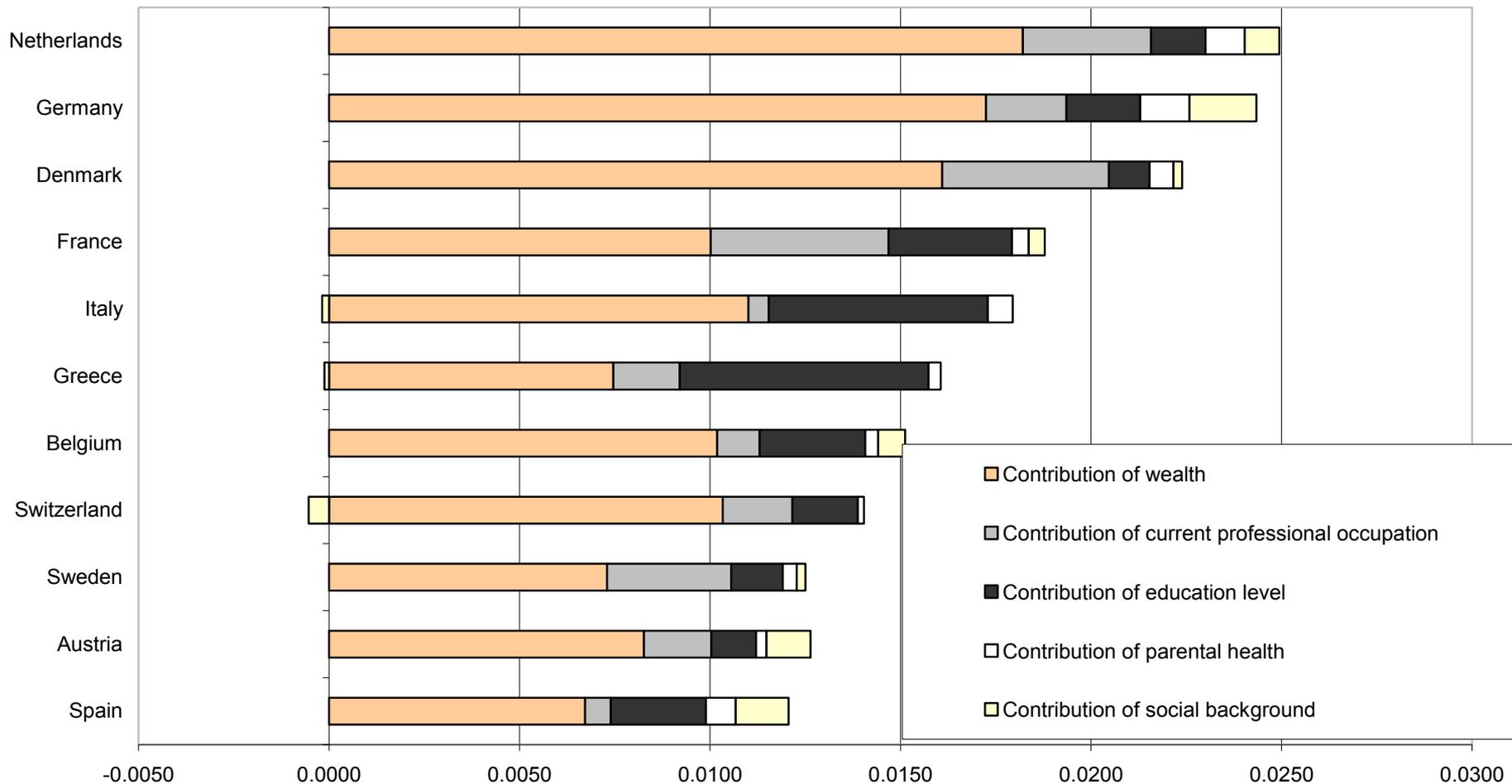
# Health inequalities related to immigration

Odds ratios indicating relative likelihood that immigrants have health problems and risky health behaviors, with controls for age and sex and adding controls for education, 2004

Country	Functioning Difficulty		ADL Difficulty		IADL Difficulty		Two Chronic Diseases		Low Self-perceived health		Current Smoker		Overweight	
	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
Austria	0.78	0.80	0.78	0.79	1.04	1.02	0.66 <sup>*</sup>	0.66 <sup>*</sup>	0.84	0.88	1.71 <sup>*</sup>	1.73 <sup>*</sup>	0.89	0.90
Belgium	1.04	1.03	1.04	0.94	1.12	1.03	1.00	0.93	1.12	1.00	1.29	1.31	1.14	1.12
Denmark	1.95 <sup>*</sup>	2.20 <sup>*</sup>	1.32	1.58	1.88	2.30 <sup>*</sup>	1.32	1.38	1.44	1.74	1.08	1.13	0.84	0.90
France	1.23	1.15	0.99	0.91	1.49 <sup>*</sup>	1.39 <sup>*</sup>	0.89	0.85	2.06 <sup>*</sup>	1.88 <sup>*</sup>	1.18	1.31	0.99	0.91
Germany	1.20	1.18	1.22	1.14	1.08	1.02	1.26 <sup>*</sup>	1.23 <sup>*</sup>	1.47 <sup>*</sup>	1.41 <sup>*</sup>	0.95	0.91	1.41 <sup>*</sup>	1.39 <sup>*</sup>
Greece	1.12	1.13	1.72	1.78	0.86	0.96	0.93	0.98	1.48	1.77	0.94	0.96	1.24	1.34
Italy	1.10	1.25	0.50	0.57	0.63	0.80	1.31	1.45	0.55	0.69	1.58	1.55	0.37 <sup>*</sup>	0.43 <sup>*</sup>
Netherlands	1.43 <sup>*</sup>	1.43 <sup>*</sup>	1.42	1.42	1.12	1.12	0.91	0.91	2.43 <sup>*</sup>	2.44 <sup>*</sup>	1.15	1.11	0.95	0.92
Spain	0.83	1.19	0.80	1.17	0.58	1.06	1.60	2.01 <sup>*</sup>	0.53 <sup>*</sup>	0.76	1.10	1.01	0.37 <sup>*</sup>	0.50 <sup>*</sup>
Sweden	1.32 <sup>*</sup>	1.44 <sup>*</sup>	1.25	1.47	1.19	1.22	1.28	1.43 <sup>*</sup>	2.04 <sup>*</sup>	2.29 <sup>*</sup>	0.94	1.03	1.45 <sup>*</sup>	1.61 <sup>*</sup>
Switzerland	1.48 <sup>*</sup>	1.58 <sup>*</sup>	2.12 <sup>*</sup>	2.48 <sup>*</sup>	1.91 <sup>*</sup>	1.84 <sup>*</sup>	1.52 <sup>*</sup>	1.52 <sup>*</sup>	2.19 <sup>*</sup>	2.24 <sup>*</sup>	1.06	1.13	0.98	0.95

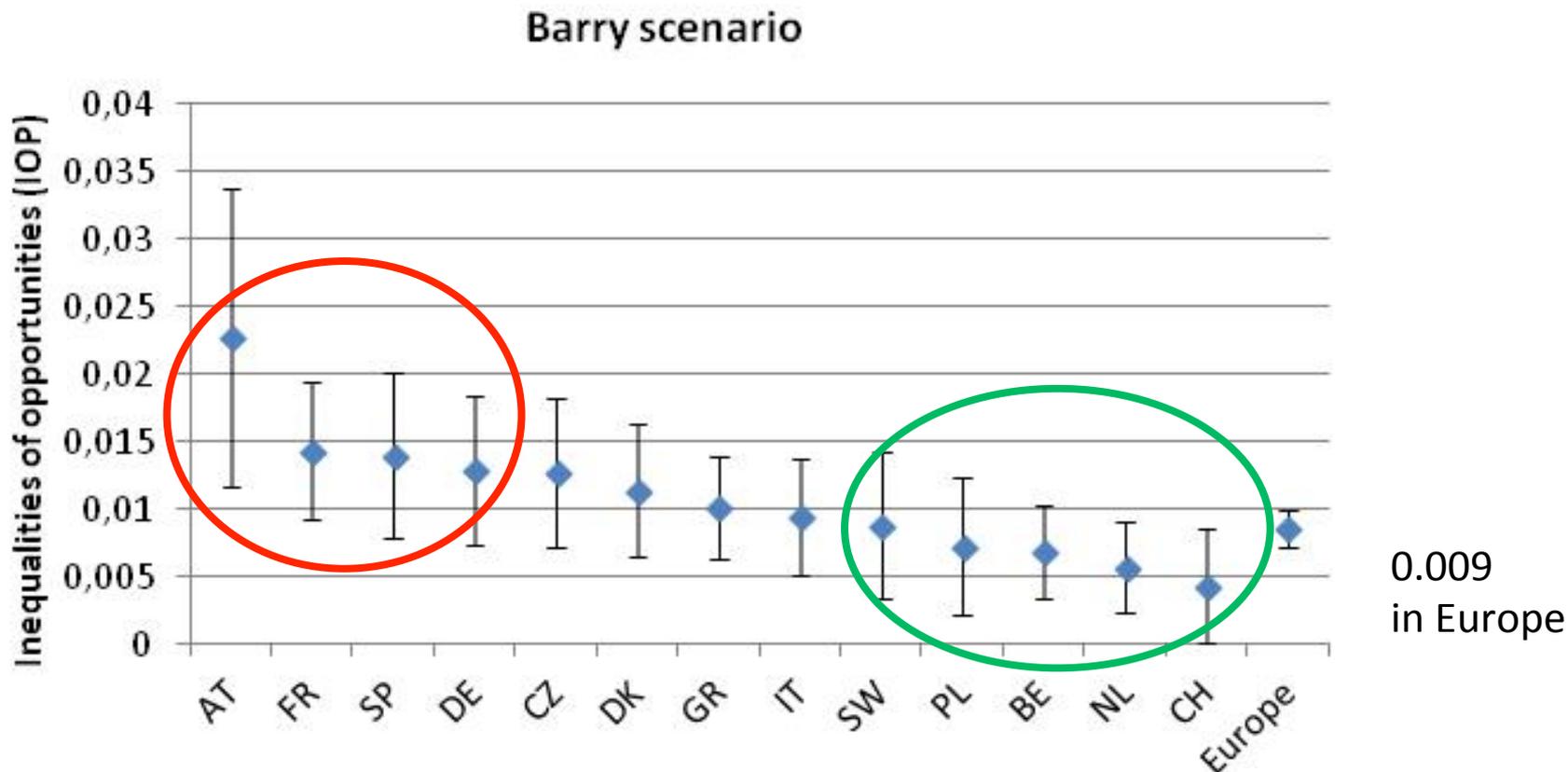
Sole-Auro A., Crimmins E.M. (2008), Health of Immigrants in European countries  
Int Migr Rev., 42(4): 861–876.

# Health inequalities related to current socioeconomic status and social and family background



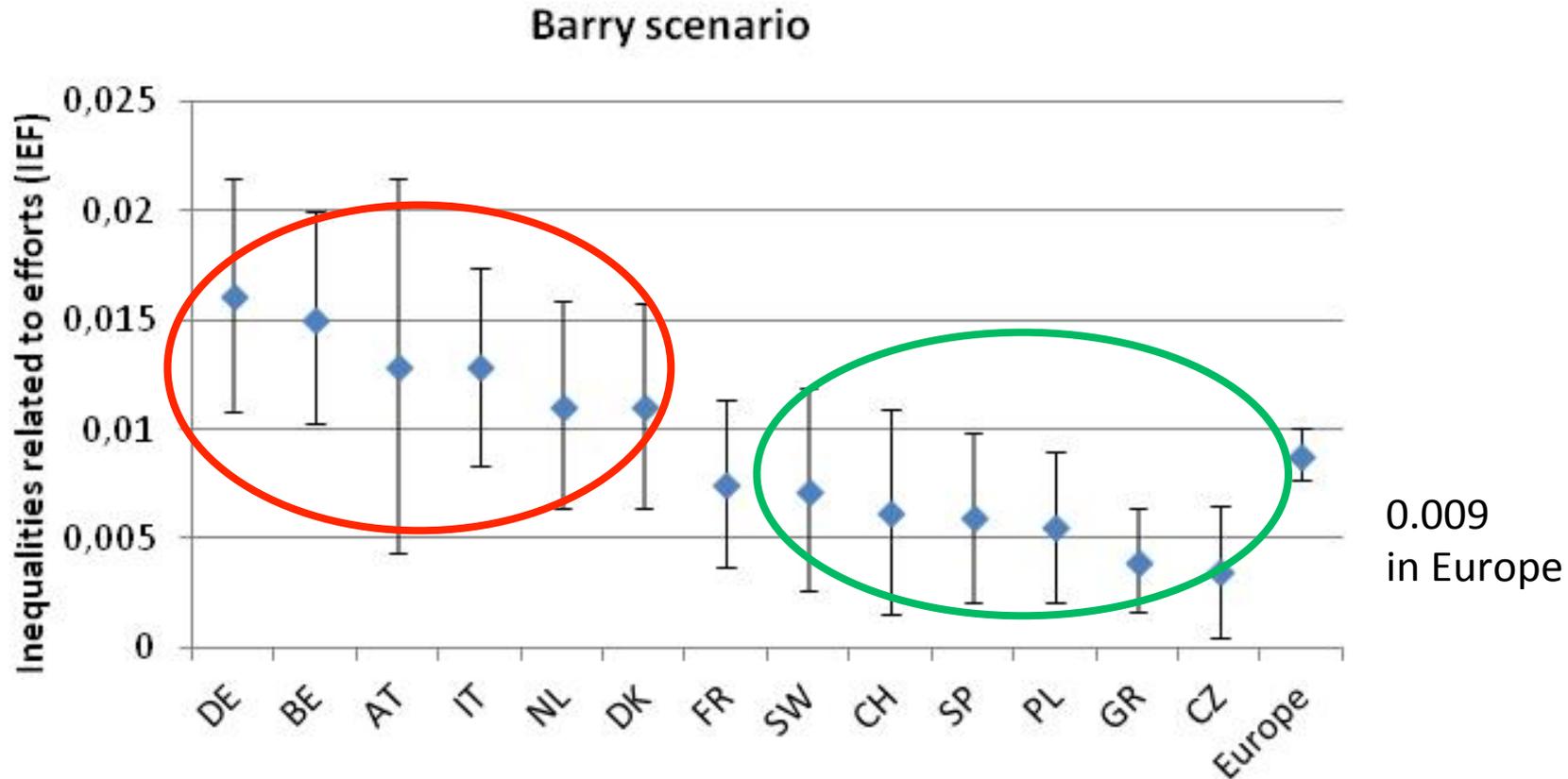
Tubeuf S., Jusot F. (2011), "Social health inequalities among older Europeans: the contribution of social and family background", *European Journal of Health Economics*, 12, 1 : 61-77.

# Inequalities of opportunities in health



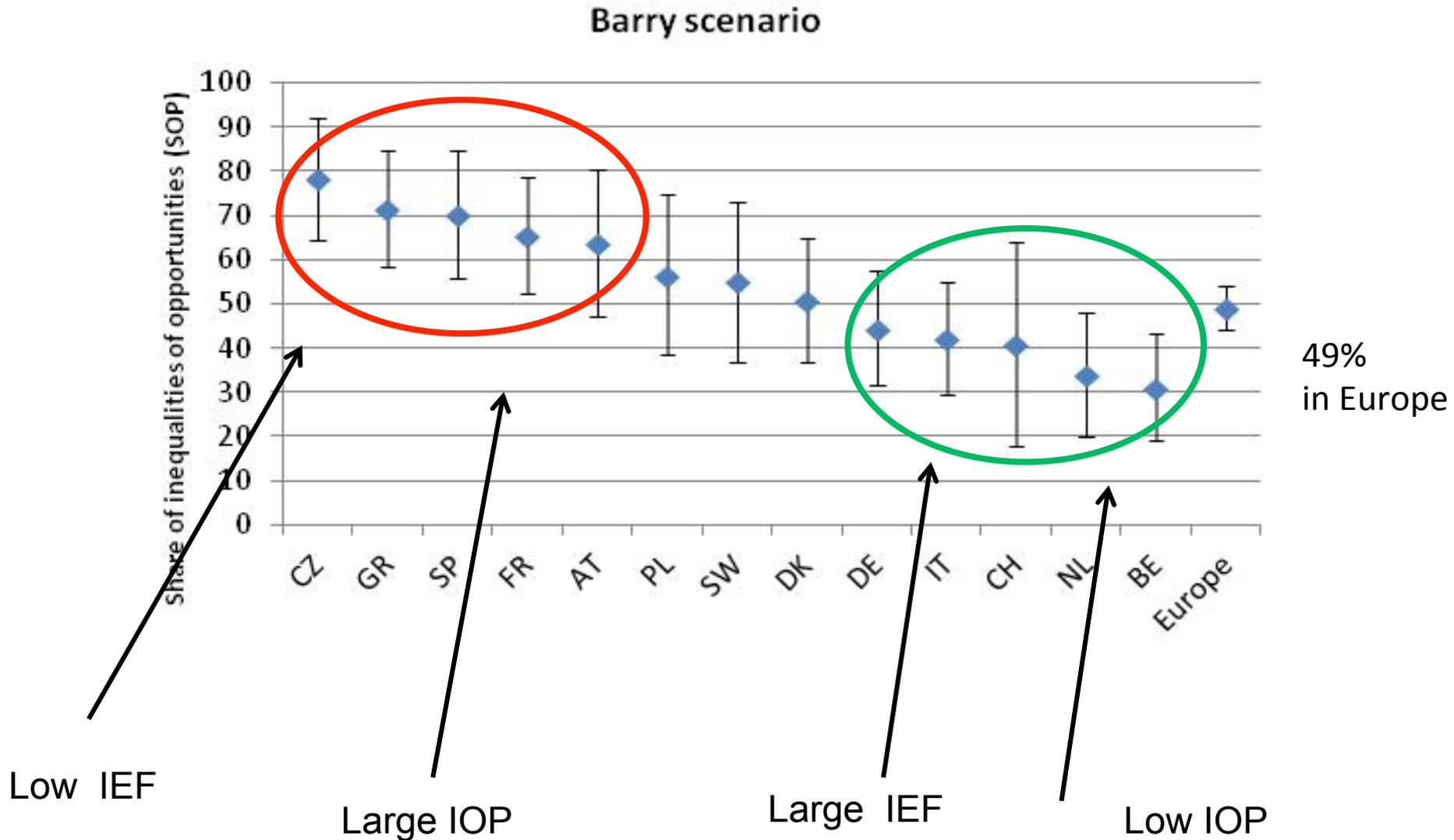
Bricard D., Jusot F., Trannoy A., Tubeuf S. (2013), "Inequality of Opportunities in Health and the Principle of Natural Reward: Evidence from European Countries", In Pedro Rosa Dias, Owen O'Donnell (ed.) *Health and Inequality* (Research on Economic Inequality, Volume 21), Emerald Group Publishing Limited : 335-370.

# Inequalities related to efforts

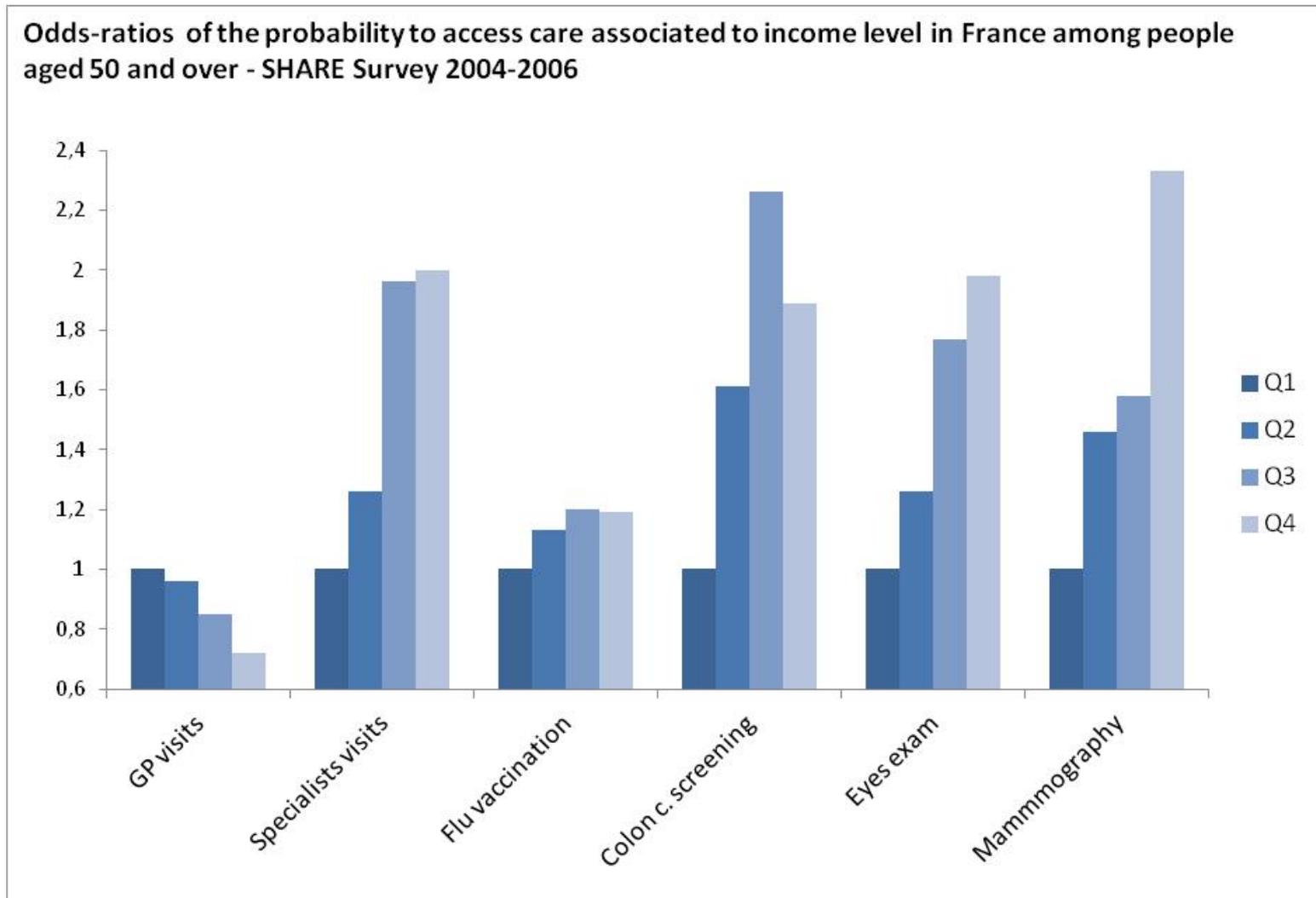


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# Share of inequalities of opportunity in explained health inequalities



# Income related inequalities in health care use in France



Or Z., Jusot F., Marcoux L., Yilmaz E. (2010) "Inégalités de consommations de soins en Europe : Quel rôle attribuable aux systèmes de santé ?", rapport Irdes

# Educational inequalities in preventive care use

	BREASCR		FLU		EYE		COL	
	Odds Ratio		Odds Ratio		Odds Ratio		Odds Ratio	
<b>Education level</b>								
No, primary or lower secondary	<i>ref</i>							
Upper / post secondary	1,35**	1,35**	1,09	1,03	1,56***	1,53***	1,35***	1,28**
Tertiary	1,41*	1,42*	1,22	1,09	1,79***	1,72***	1,6***	1,45***
<b>BMI</b>								
<i>Underweight or normal</i>	<i>ref</i>	-	<i>ref</i>	-	<i>ref</i>	-	<i>ref</i>	-
Overweight	1,16***	-	1,12***	-	1,09**	-	0,98	-
Obese	0,87**	-	1,25***	-	1,02	-	0,93	-
<b>Self assessed health</b>								
Good or very good	<i>ref</i>	-	<i>ref</i>	-	<i>ref</i>	-	<i>ref</i>	-
<i>Less than good</i>	0,96	-	1,54***	-	1,2***	-	1,68***	-
<b>Inter-country variance</b>	0,79***	0,79***	0,31***	0,29***	0,12***	0,11***	0,31***	0,3***
<b>Variance education</b>								
Upper / post secondary	0,11***	0,11***	0,05***	0,05***	0,04***	0,04***	0,05**	0,04**
Tertiary	0,22***	0,22***	0,12***	0,11***	0,1***	0,1***	ns	ns

\*\*\* significant at 0.01 level, \*\* significant at 0.05 level

Controls for age and sex

Or Z., Jusot F., Marcoux L., Yilmaz E. (2010) "Inégalités de consommations de soins en Europe : Quel rôle attribuable aux systèmes de santé ?", rapport Irdes

# Inequalities in preventive care use and health systems characteristics

Health system characteristics	Impact on mean probability of prevention use			
	BREASCR	FLU	EYE	COL
	O.R.	O.R.	O.R.	O.R.
Pub Health Exp (% GDP)	1,02	1,09	<b>1,21**</b>	<b>1,43***</b>
Out of pocket	0,96	0,97	1,00	0,98
Specialist density	<b>0,46*</b>	<b>0,62**</b>	1,15	0,88
GP density	1,64	<b>1,62*</b>	1,37	<b>1,69*</b>
Gatekeeping	1,32	1,26	<b>0,56***</b>	0,64
National Health System	0,41	<b>0,61*</b>	0,89	0,62

Significance level : \*\*\* 1% ; \*\* 5% ; \* 10%

All the equations control for all other individual variables

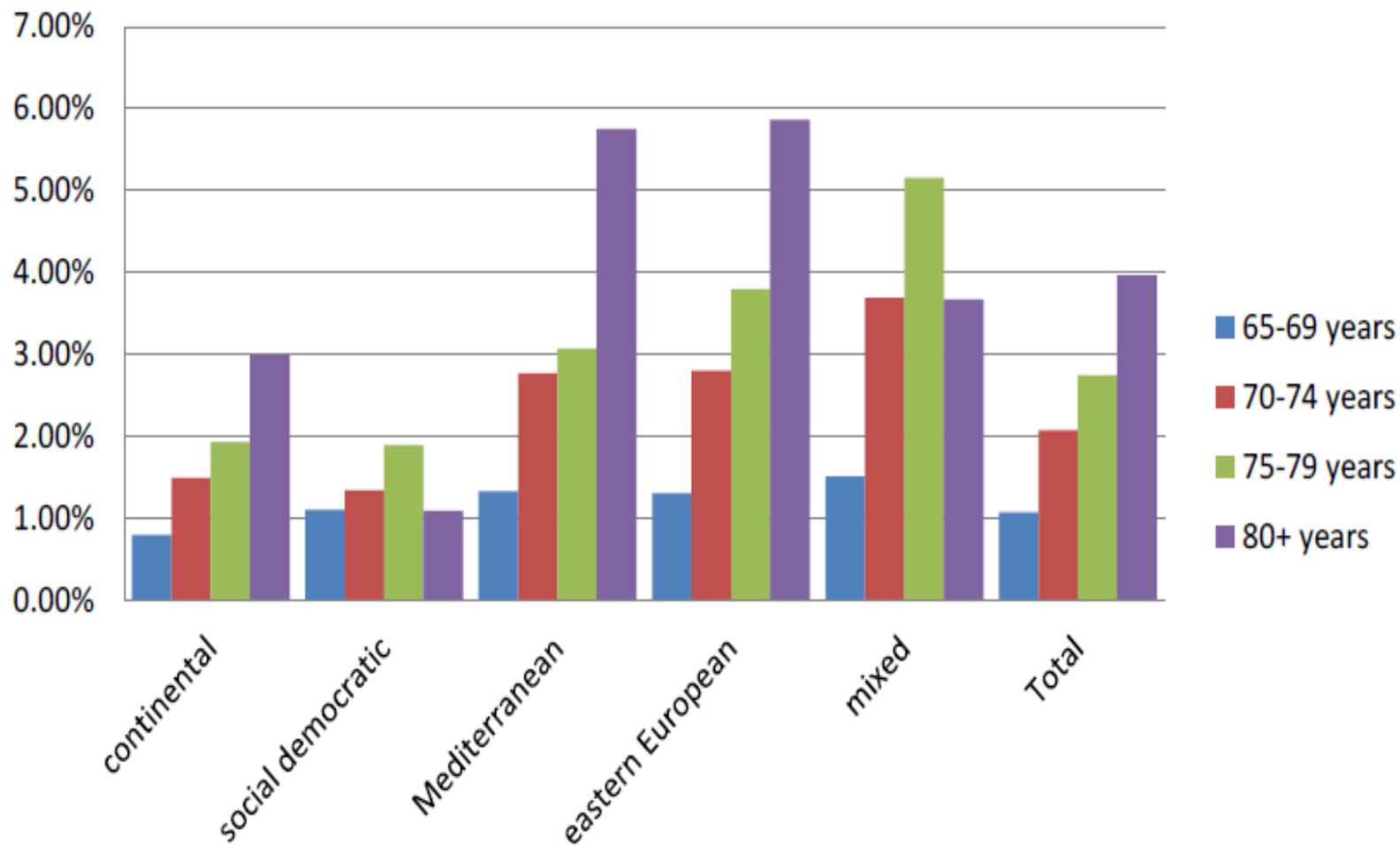
# Inequalities in preventive care use and health systems characteristics

Health system characteristics	Impact on educational inequalities		
	BREASCR	FLU	EYE
	O.R.	O.R.	O.R.
Pub Health Exp (% GDP)	0,93	1,07	0,96
Out of pocket	<b>1,02**</b>	1,01	1,01
Specialist density	<b>1,67***</b>	<b>1,21*</b>	<b>1,23**</b>
GP density	1,18	<b>1,17*</b>	0,84
Gatekeeping	0,79	0,94	<b>1,31*</b>
National Health System	<b>0,72*</b>	1,18	<b>1,23*</b>

Significance level : \*\*\* 1% ; \*\* 5% ; \* 10%

All the equations control for all other individual variables

## Unmet needs for elderly care - age and welfare regime' profiles



Andrej Srakar, Valentina Hlebec, Boris Majcen (2015), Determinants of unmet needs for long-term care of older people in the European Countries, Share First Results Book – Wave 5

**Thank you for your attention**

[www.share-project.org](http://www.share-project.org)

[www.sharedauphine.fr](http://www.sharedauphine.fr)