





Unequal ageing in health: theories, causes and consequences

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(based on research carried out with Ilinca, S., Schmidt, A. and Zolyomi, E.)

BB Summer School in Social Welfare

Overview of the presentation

- Inequalities in ageing: a lifecourse approach to health
- Inequalities in health among the 65+ in Europe
- Assessing health inequalities in old-age: practicalities

Ageing and health inequalities

Intergenerational inequalities: do health inequalities increase with age?

More unequal in old-age... Why should we?

Arguments against:

- Age as the fundamental determinant of health at older age groups
- Causes of death at early age groups are particularly sensitive to socioeconomic conditions: unintentional injury, suicide (Backlund et al 2007)
 → but beware of context: US studies (homicide) and mortality among middle-aged men in former USSR
- Selective mortality or the "survival of the fittest"

More unequal in old-age... Arguments in favour

Arguments in favour:

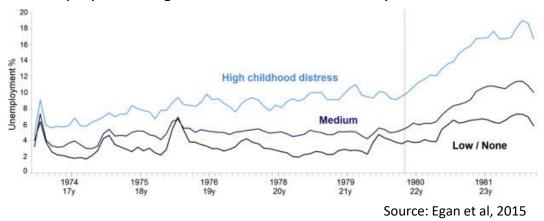
- Age-relatedness (Mayer et al 1999): old-age creates specific challenges
- Comulation hypothesis: "Nature gives you the face you have at twenty.
 Life shapes the face you have at thirty." (Coco Chanel)

Life is a path not a destination

Comulation hypothesis:

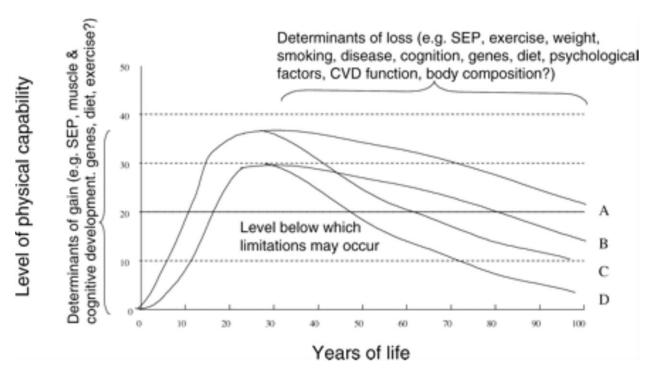
 (Dis)Advantages tend to accumulate along the life course: material, behavioral, and psychosocial factors (von dem Knesebeck, 2010)

Figure 2: Unemployment August 1974–November 1981 by levels of childhood distress.



 Determinants of health have a long lag (e.g. 10 years between smoking cessation and carcinoma, Dela Cruz et al, 2011)

A life-course approach to health inequalities in old-age



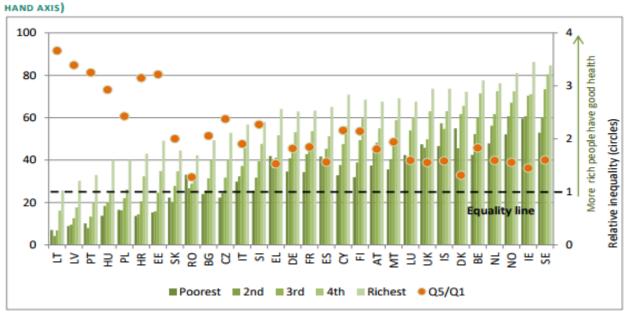
Source: Diana Kuh and the New Dynamics of Ageing (NDA) J Gerontol A Biol Sci Med Sci. 2007;62(7):717-721. Copyright 2007 by The Gerontological Society of America

Ageing and health inequalities

Intragenerational inequalities: how unequal in health are older Europeans?

Current health inequalities among old-age population in Europe

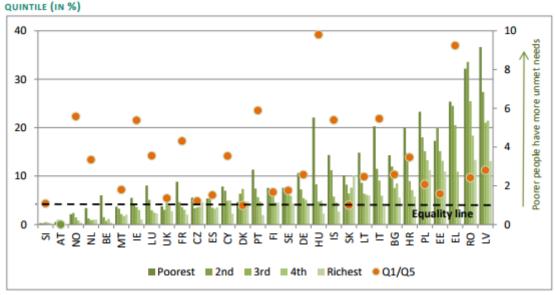
FIGURE 21 PROPORTION OF 55 AND OLDER WITH GOOD SELF-ASSESSED HEALTH BY INCOME QUINTILE (IN % ON LEFT-



Source: Ilinca et al (2016), based on EU-SILC data

Inequalities in health care access among old-age population in Europe

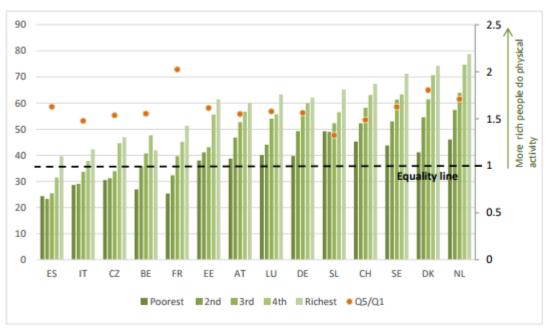
FIGURE 26 PERCENTAGE OF INDIVIDUALS AGED 55 AND OLDER WITH UNMET HEALTHCARE NEEDS BY INCOME



Source: Ilinca et al (2016), based on EU-SILC data

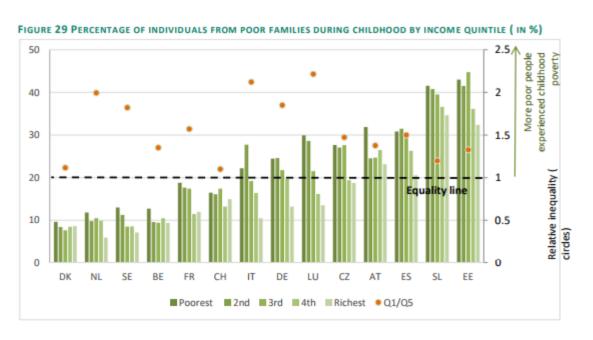
Inequalities in health determinants among old-age population in Europe

FIGURE 24 PROPORTION OF INDIVIDUALS DOING VIGOROUS PHYSICAL ACTIVITY AT LEAST ONCE A WEEK BY INCOME QUINTILE (IN %)



Source: Ilinca et al (2016), based on SHARE data

Evidence of low social mobility in Europe



Source: Ilinca et al (2016), based on SHARE data

What about acceding countries and Eastern partnership

- CIS: "no country for old-men"; large and rising inequalities 1990s (Walters & Suhrcke, 2005)... Small improvements since (Goryakin et al 2015)
- Western Balkans: limited comparative evidence (Eikemo et al, 2009)

Figure 1 ORs (95% CI) (y-axis) and absolute differences (95% CI) of ill health (x-axis) by education in former Yugoslavia

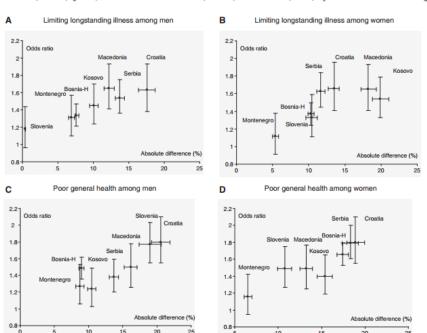
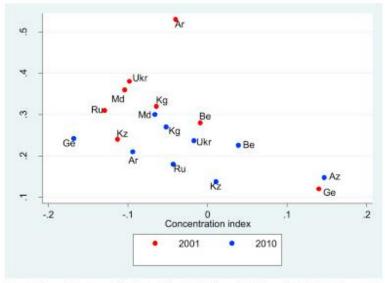


Fig. 1. Is there a trade-off between average level of poor mental health and wealth-related inequalities in poor mental health?



Note: "Ar" stands for Armenia, "Az"- Azerbaijan, "Be"-Belarus, "Ge"- Georgia, "Kz"- Kazakhstan, "Kg"-Kyrgyzstan, "Md"- Moldova, "Ru"-Russia, "Ukr"- Ukraine.

Source: Goryakin et al (2015)

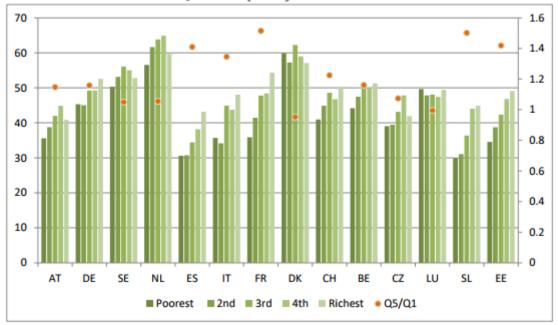
Source: Eikemo et al (2009)

Future health inequalities... Forget all you just saw

- Working conditions → Current old-age health inequalities (Molarius et al, 2006; Fors et al, 2007; Parker et al, 2013)
- Lifestyles and chronic conditions → Future old-age health inequalities?
- Evolving prevalence of determinants of health: tobacco epidemic
- Education not only the preserve of elites: reduced inequalities or greater self-selection of the poor
- Public policies: inequalities a price to pay for success?
- Persistent health inequalities, even in high income and egualitarian societies (Fors & Thorslund, 2014)

Back in the day... When Malboro man was rich and educated

A4.3.9 Proportion of individuals aged 55 and above who report ever having smoked by income quintile (in %)



Source: Ilinca et al (2016), based on EU-SILC data

Pitfalls and possibilities for assessign inequalities in old-age

- What makes for low/high socio-economic class among older people?
 (Lindelow 2006, Rodrigues et al, forthcoming)
- Life-course approach → choice of indicators
- Measuring the social gradient

Table 3 A comparison of different indices of the social gradient		
Gradient Measure	Advantages	Disadvantages
Frequency Ratios	Illustrational/ interpretational ease	-Information loss -Limited data applicability -One-dimensional
Odds Ratios	-Illustrational/ interpretational ease -Possibility of including control variables	-Information loss in the case of categorical SES variable -Data restrictions -One-dimensional
Correlation index	-Experience of total population -versions for continuous and categorical data	-One-dimensional
Slope Index of Inequality	-Experience of total population -Based on rankings - Possibility of including control variables	-Sensitive to mean population health -Possible interpretational difficulty
Relative Index of Inequality	-Experience of total population -Based on rankings - Possibility of including control variables	-Possible interpretational difficulty
Concentration Index	-Experience of total population -Based on rankings -Properties well understood -Multi-dimensional/ Possible to decompose	-Zero value does not imply equality in childcare use -Modification is necessary with binary dependent variable

Source: Medgyesi & Kalaverzou (2014)

Thank you very much