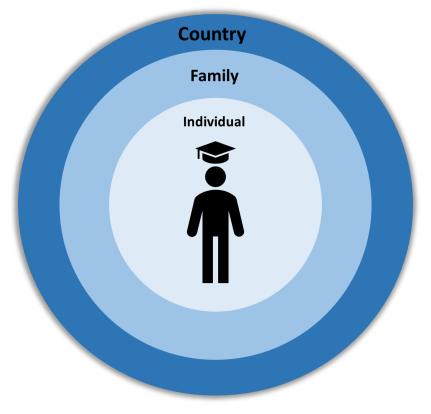
Educational trajectories and inequalities in longevity: a comparison across 14 European countries

Cornelia Wagner¹ MSc, Stéphane Cullati^{1,2} PhD, Stefan Sieber³ PhD, Tim Huijts^{4,5} PhD, Arnaud Chiolero^{1,6,7} MD PhD, Cristian Carmeli¹ PhD

- ¹ Population Health Laboratory (#PopHealthLab), University of Fribourg, Switzerland
- ² Department of Readaptation and Geriatrics, University of Geneva, Switzerland
- ³ LIVES Centre, Swiss Centre of Expertise in Life Course Research, University of Lausanne, Switzerland
- ⁴ Research Centre for Education and the Labour Market (ROA), Maastricht University, The Netherlands
- ⁵ Centre for Global Health Inequalities Research (CHAIN), Norwegian University for Science and Technology, Norway
- ⁶ Institute of Primary Health Care (BIHAM), University of Bern, Switzerland
- ⁷ School of Population and Global Health, McGill University, Canada



3 METHODS

- SHARE cohort: 52,271 adults (mean age 67.2 years), 14 European countries
- Outcome: **all-cause mortality** (2013-2020)
- Parental Individual educational trajectories: High-High (reference), Low-High, High-Low, Low-Low

1 BACKGROUND

- Higher education is associated with longer life expectancy
- Parental education: strong predictor of offspring education, proxy for socioeconomic status, socialization into "typical" health behaviors
- **Country:** moderator of individual-level health determinants

2 OBJECTIVES

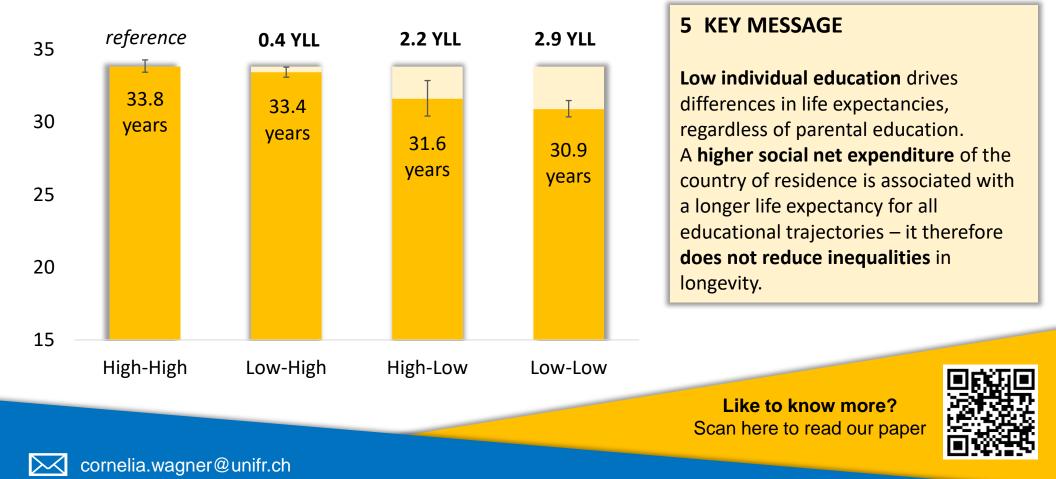
- 1. What is the role of **parental-individual educational trajectories** in shaping inequalities in longevity?
- 2. Can **country-level social net expenditure** mitigate these inequalities?

4 **RESULTS**

- High-High life expectancy: 33.8 years (i.e. 83.8 years of age)
 - Low-High: 0.4 YLL (95% Cls: 0.2 to 0.9); High-Low: 2.2 YLL (1.0 to 3.5); Low-Low: 2.9 YLL (2.2 to 3.6)
- Years of life lost (YLL): differences in the area under standardized survival curves, between ages 50 – 90 years
- Meta-regression: association between country-level social net expenditure and YLL
- Higher social net expenditure was associated with a longer life expectancy but not smaller YLL (i.e. inequalities)
- 1% increase in social net expenditure: 0.2 years for High-Low (0 to 0.5), and Low-Low (0 to 0.5) gained



FR



Presented at the 17th World Congress on Public Health, May 2-6 2023, Rome, Italy