

Perceived Life Control Differences in the Association between Income and Education



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Introduction

- Self-determination theory describes the importance of autonomy, competence, and relatedness for fostering individual well-being. Autonomy is an essential aspect of happiness (Seligman & Csikszentmihalyi, 2000), and perceived control is directly correlated with life satisfaction (Andrew & Meeks, 2018).
- Optimistic mindsets are associated with lower risk of heart attacks and strokes, as well as a lower risk of death (Rozanski et al., 2019). Neurophysiology, psychology, and economics predict mindset (Yang et al., 2022).
- There is conflicting evidence regarding the effect of education on happiness and perceived life control.
 - The objective of pursuing higher education is often to open up more vocational opportunities, and thus increase life control and happiness (Blanchflower & Oswald, 2004).
 - However, these opportunities may not always pay as much as one may desire. The frustration of these unmet expectations may ultimately decrease happiness (Clark & Oswald, 1996).

Research Questions

- To what extent are income and education predictive of perceived life control (PLC)?
- Is it important to consider both income and education to create a predictive model of perceived life control?

Methods

Sample

Respondents (n=4196) were drawn from Wave 5 of the U.S.
 National Longitudinal Survey of Adolescent Health (Add Health), a nationally representative sample of adults from an age-matched cohort.

Measures

- Levels of income (low, middle, upper) and levels of education (high school, college, post-graduate) were considered in tandem to create a measure of individual icnome+education.
- PLC was measured by considering responses to the questions:
 - 1. In the past 30 days, how often have you felt that you were unable to control the important things in your life?
 - 2. In the past 30 days, how often have you felt confident in your ability to handle your personal problems?

Sex

-- male

Sex

■ 3. In the past 30 days, how often have you felt that things were going your way?

Results

Bivariate

■ PLC is significantly and positively associated with income (r = 0.22, p < 2e-16), education (r = 0.124, p = 2.366e-15), and income + education (r = 0.2,p < 2.2e-16).

Multivariate

- PLC was significantly and positively associated with Income, education, and income + education after controlling for biological sex (p < 2.2e-16 for all).
- Males tend to have higher PLC scores than females (beta = 0.53, p = 2.74e-13).

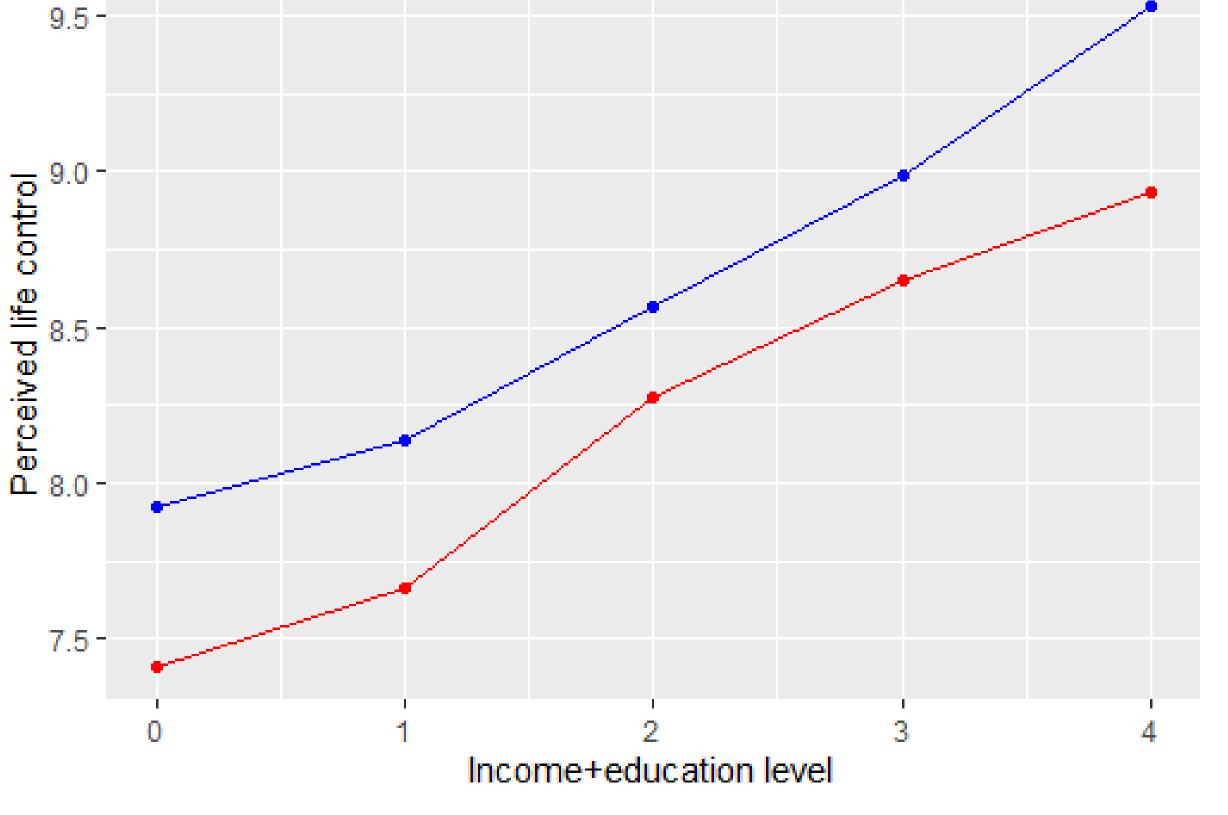


Figure 1: Differences in Male and Female Perceived Life Control scores by Income + Education

Berceived life control Income level

Figure 2: Differences in Male and Female Perceived Life Control scores by Income

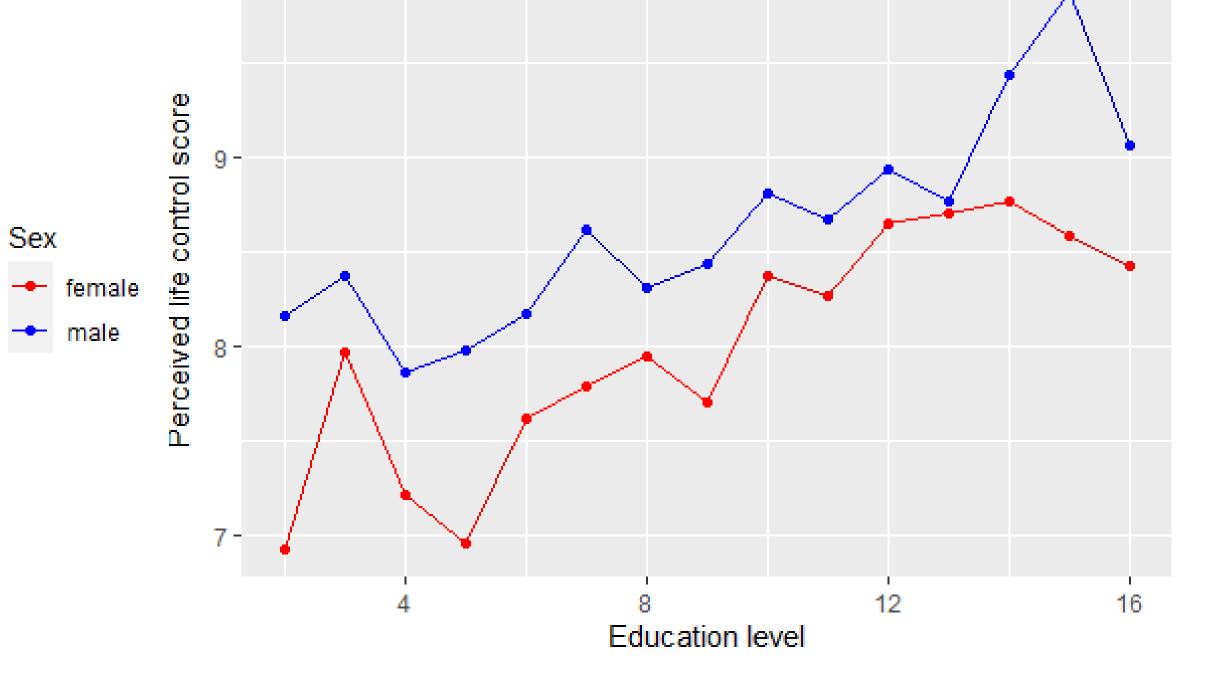


Figure 3: Differences in Male and Female Perceived Life Control scores by Education

Discussion

- As income and education increase,
 perceived life control reliably increases.
- A better understanding of the relationship between perceived life control and income and/or education may inform decision-making for supporting those who are low in income and/or education.
- The lower reported PLC scores by females suggests the importance of testing other covariates (race, sexual orientation, etc.).
- The association between income, education, and PLC by age should be investigated; this would necessitate the use of a non-age-matched survey cohort.

References

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