Self-control and well-being: unravelling their covariation across the lifespan using a twin design

Y.E. Willems1,2, B.M.L. Baselmans1,2, C.E.M. van Beijsterveldt1, R.S.L. Ligthart1, D.I. Boomsma1,2,3, C. Finkenauer1,4 & M. Bartels1,2,3

1Vrije Universiteit Amsterdam, 2EMGO+ Institute for Health and Care Research, 3Neuroscience Campus Amsterdam, 4Universiteit Utrecht

Introduction

- Subjective well-being & self-control strongly correlate
- What is the underlying etiology?
- Well-being heritable (40%) Self-control heritable (60%)
- Likely that some genetic & environmental factors influencing well-being also influence self-control

Research Aim

The aim of this study is to disentangle environmental and genetic influences on the covariation between self-control and well-being across the lifespan.

Participants

- The Netherlands Twin Registry
- Parents filled in questionnaires of their children age 7, 10, 12
- Children filled in self-reports at age 14, 16, 18
- Participants >18 self-report questionnaires every 2-3 years
- Large (N> 10,000 Twins) and population based sample

Measures

Well-being: Cantrill Ladder, quality of life on a ten step ladder
Self-Control: Self-Control Scale NTR

Analyses

Monozygotic twins (MZ) 100% genetically similar, Dizygotic twins (DZ) share 50% genetically material.

MONOZYGOTIC TWIN (MZ)

- MZ cor > DZ cor = genetic influences
- MZ cor < 2x DZ cor = environmental influences

Twin correlations and cross-twin cross-trait correlations were estimated using OpenMx.

Discussion

- Genetic, common and unique environmental influences on childhood overlap well-being and self-control
- Only genetic and unique environmental influences in adolescence and adulthood overlap on well-being and self-control
- In the future: bivariate Cholesky decomposition to quantify proportion of variance explained by genetic and environmental influences.

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