

Celebrating 30 years of the MIDSPAN Studies



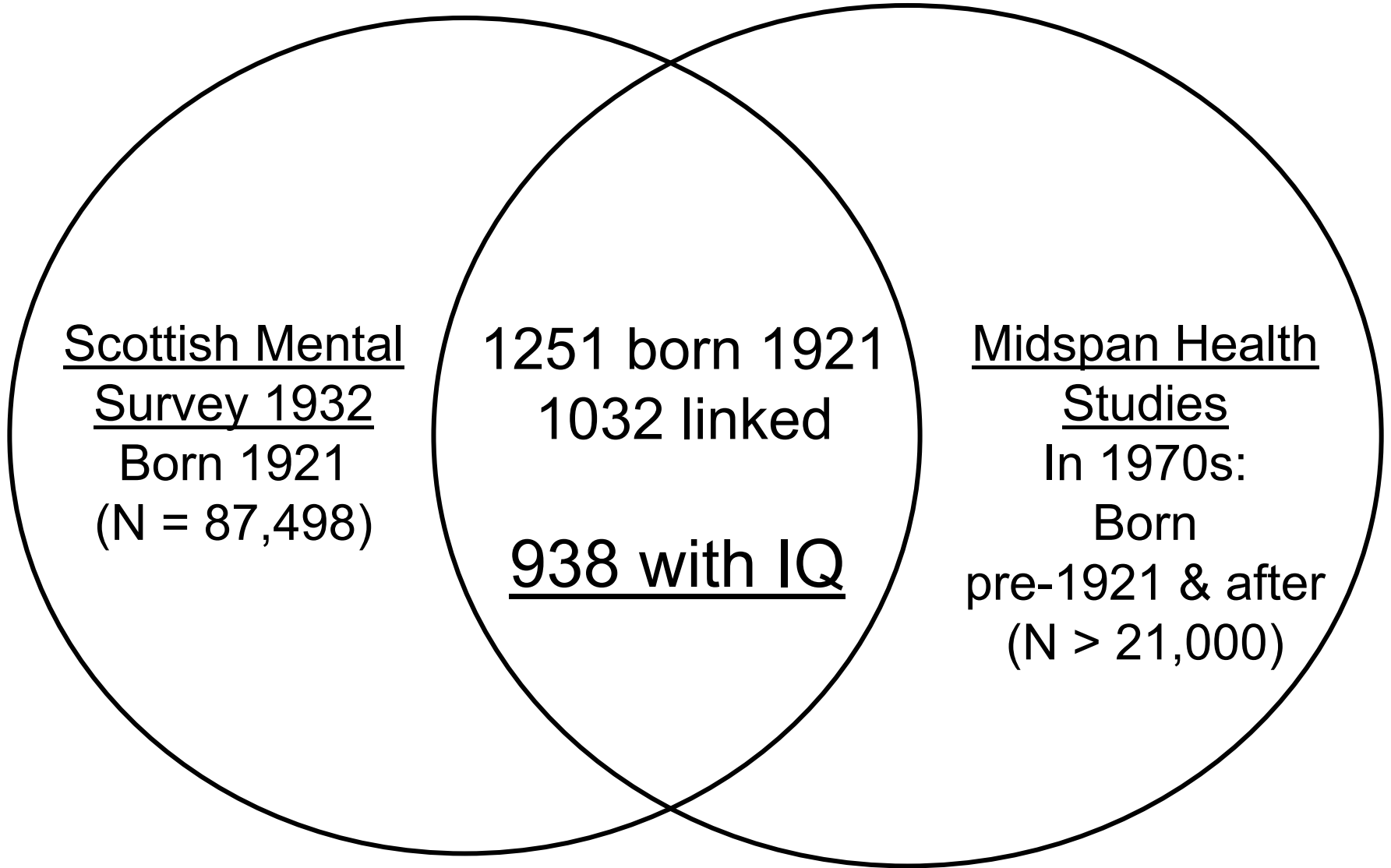
Childhood IQ

Ian Deary

Scottish Mental Survey 1932

- June 1st 1932: almost all Scottish children born in 1921
- N = 87,498; >95% population
- Scottish Council for Research in Education
- Godfrey Thomson's Moray House Test (MHT)
 - IQ-type: verbal, spatial, numerical, abstract
 - $r = 0.8$ with Stanford Binet (N = 1000)

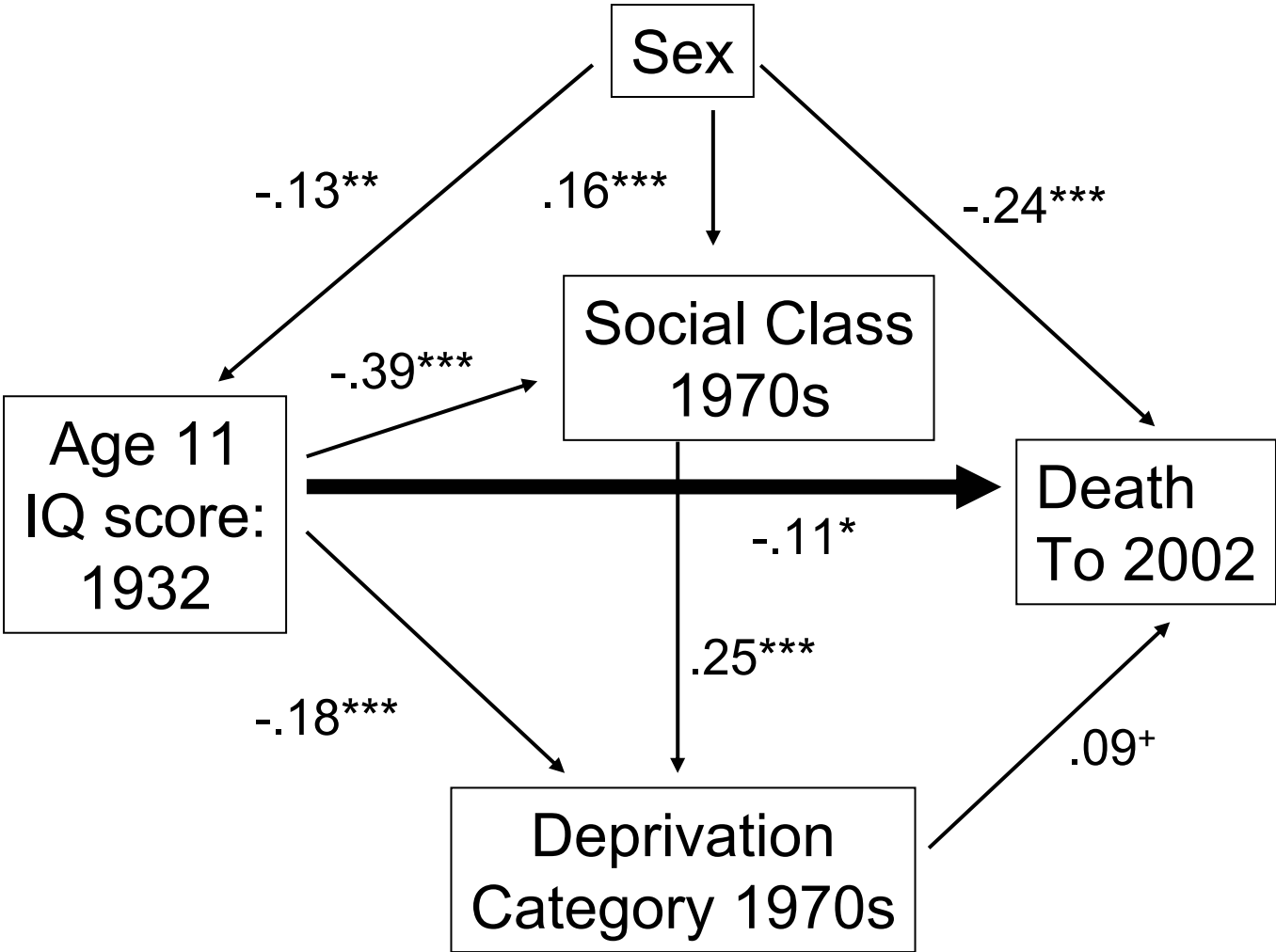
Linking Scottish Mental Survey 1932 with Midspan



Linking Scottish Mental Survey 1932 with Midspan

- IQ vs all-cause mortality
- Relative rate for 1SD ↓IQ = 1.17 (95% CI = 1.07-1.29)
- Relative rate = 1.12 (95% CI = 1.01-1.24) after control occupation at midlife & deprivation in area of residence

Linking Scottish Mental Survey 1932 with Midspan



Linking Scottish Mental Survey 1932 with Midspan

- Childhood IQ is associated with...
- All cause mortality
- Stomach and lung cancer
 - Hart et al. (2003) *Psychosomatic Medicine*, 65, 877-883.
- Cardiovascular disease and death
 - Above & Hart et al. (2004) *Social Science and Medicine*, 59, 2131-2138.
- Smoking cessation but not uptake
 - Taylor et al. (2003) *J. Epidemiol. & Comm. Health*, 57, 464-465.
- Death before but not after 65
 - Hart et al. (2005) *British Journal of Health Psychology*, 10, 153-165.
- Hypertension in mid-life
 - Starr et al. (2004) *Journal of Hypertension*, 22, 893-897.
- Social mobility and mid-life status attainment
 - Deary et al. (2005) *Intelligence*, 33, 455-472.
- Marriage by mid-life (but different for men & women)
 - Taylor et al. (2005) *Personality & Individual Differences*, 38, 1621-1630.

IQ & health and death: explanations?

- Archaeological record of perinatal/childhood insults
 - e.g. birth weight
 - Shenkin et al. (2004). *Psychological Bulletin*, 130, 989-1013.
- System integrity
 - how measured?; e.g. reaction time
 - Deary & Der (2005) *Psychological Science*, 16, 64-69.
- Health behaviours, knowledge and management
 - e.g. smoking
 - Taylor et al. (2003) *J. Epidemiol. & Comm. Health*, 57, 464-465.
 - cognitive competence?
 - Gottfredson & Deary (2004) *Curr. Dir. Psychol. Sci.*, 13, 1-4.
- Entry to healthy environments
 - occupational exposures

Gottfredson & Deary (2004) *Current Directions in Psychological Science*, 13, 1-4.

Batty & Deary (2004) *British Medical Journal*, 329, 585-586.

