

Trends in the self-rated health, chronic diseases and disability of Dutch 60-85-year-olds

The Longitudinal Aging Study Amsterdam, 1992-2009

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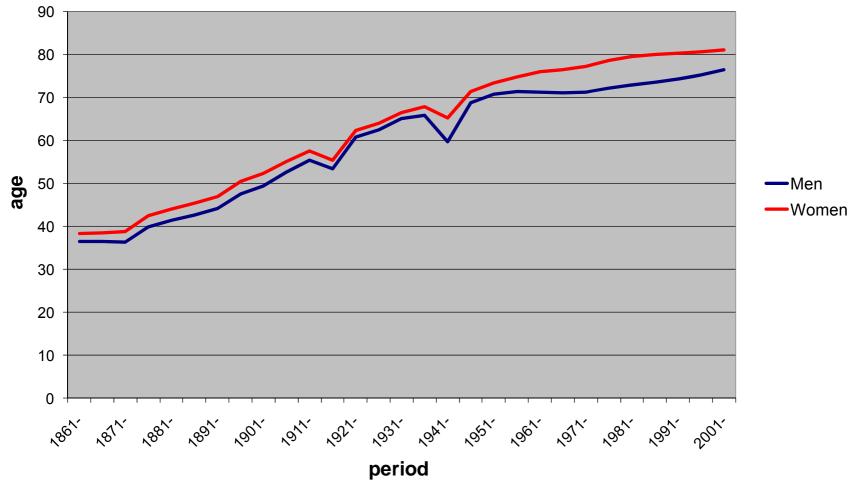


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Life expectancy in The Netherlands





In this presentation:

- Is a better life expectancy associated with being in better health *or feeling healthier*?
- 1. Depends on definition of 'health'
- 2. Factors that influence how we feel about our health may change over time



Self-rated health (SRH)

- 'How is your health in general?'
 - Predictor of morbidity, functional limitations, mortality
- Trends in self-rated health $\uparrow\downarrow$
 - Salomon et al., 2009, Jang & Kim, 2010, Doblhammer & Kytir, 2001
- Context of trends in determinants of SRH:
 - Chronic diseases ↑
 - Disability $\uparrow \downarrow$
 - (Crimmins & Béltran-Sánchez, 2011, Parker & Thorslund, 2007, Uijen & van de Lisdonk, 2008; Freedman et al., 2002; 2004)

Changing associations?



Methods

- LASA
- 6 measurement waves
- N=4,109
- Aged 60-85 → N=4,009







Health indicators

- Self-rated health
 - 'fair'; 'sometimes good, sometimes poor'; 'poor' → Poor SRH Vs.
 - 'Very good'; 'good'

→ Good SRH

- Chronic diseases
 - Lung disease, cardiac disease, peripheral atherosclerosis; diabetes; stroke; arthritis; cancer
 - Multimorbidity: ≥ 2 chronic diseases
- Disability
 - 6 daily activities
 - Mild: difficulty with ≥1 activity, but able to perform all activities independently
 - Severe: unable to perform ≥ 1 activity independently



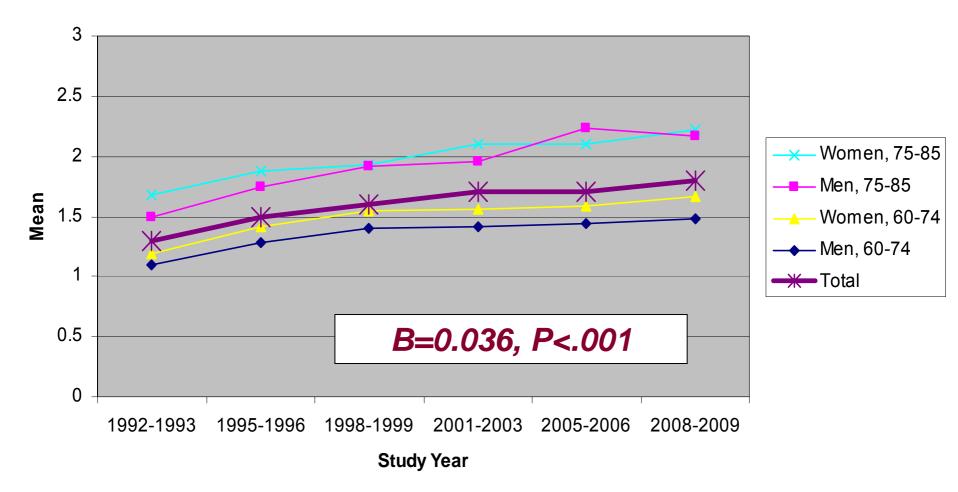
Analysis

1. Prevalence

- Weighted by 5-year age groups and gender
- By age (75-85 vs. 60-74), gender, level of education (primary or less vs. secondary or higher)
- 2. Generalized Estimating Equations (GEE)
 - Effect time in years on diseases, disability and SRH
 - Effect time in years on associations (interactions)
 - Chronic diseases \rightarrow SRH
 - Disability \rightarrow SRH
 - Chronic diseases \rightarrow Disability
- 3. Population attributable risks to poor SRH
 - Combining the prevalence with the impact on poor SRH for each wave



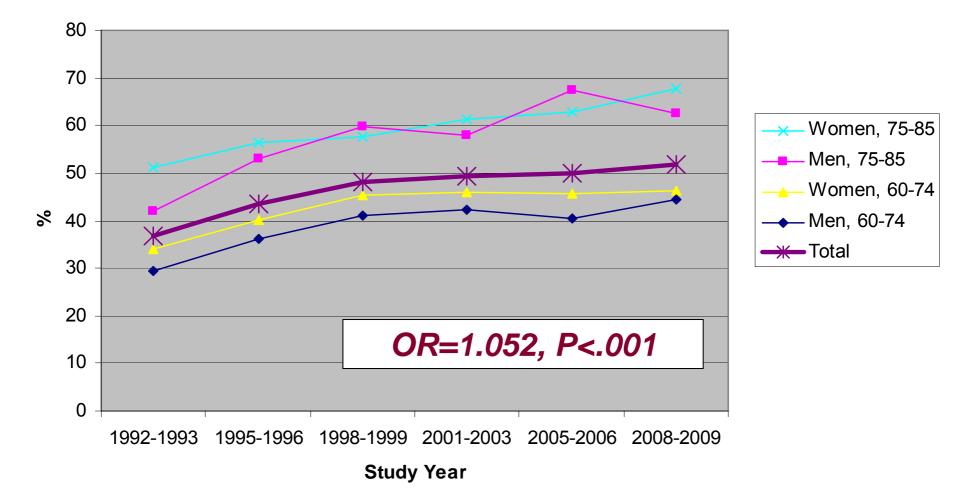
Trend in mean number of diseases



Age- and gender-weighted

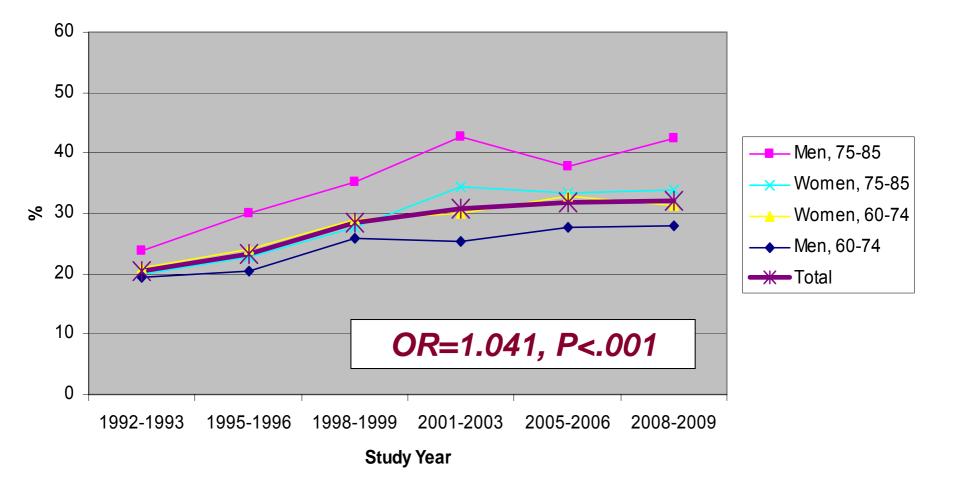


Trend in % multimorbidity



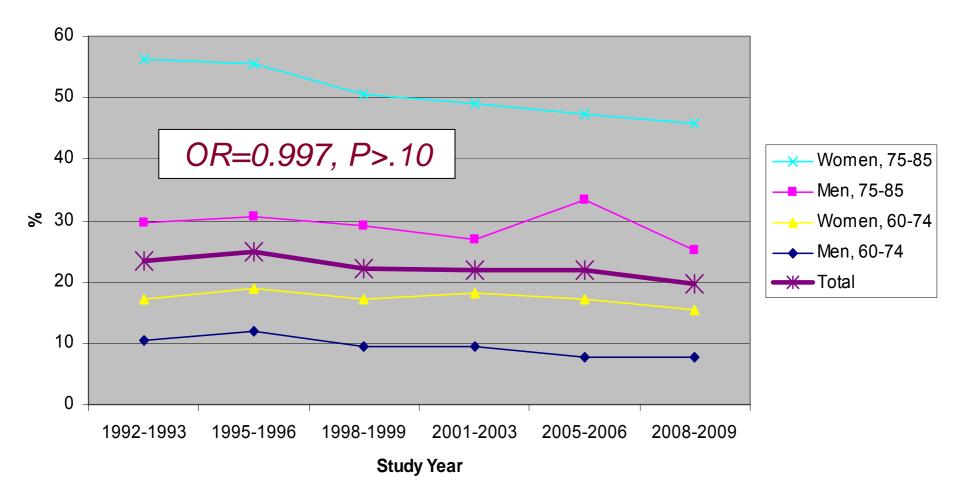


Trend in % mild disability





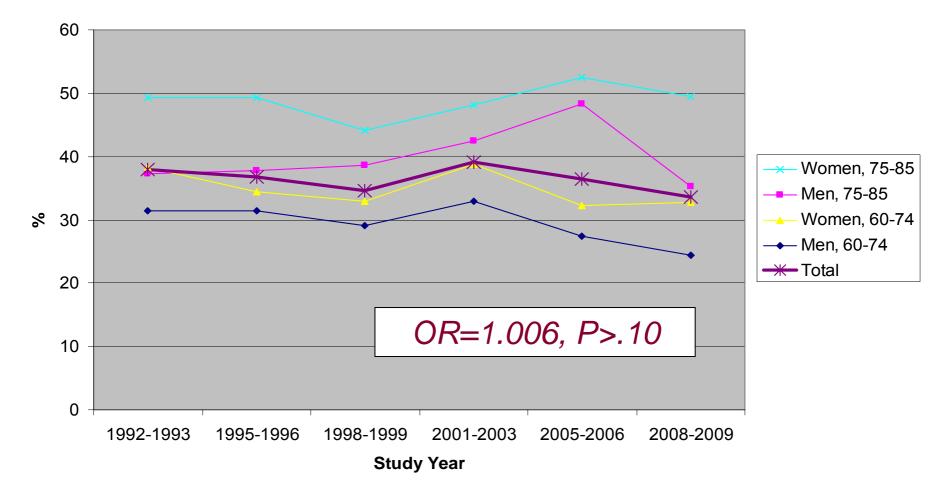
Trend in % severe disability



Age- and gender-weighted

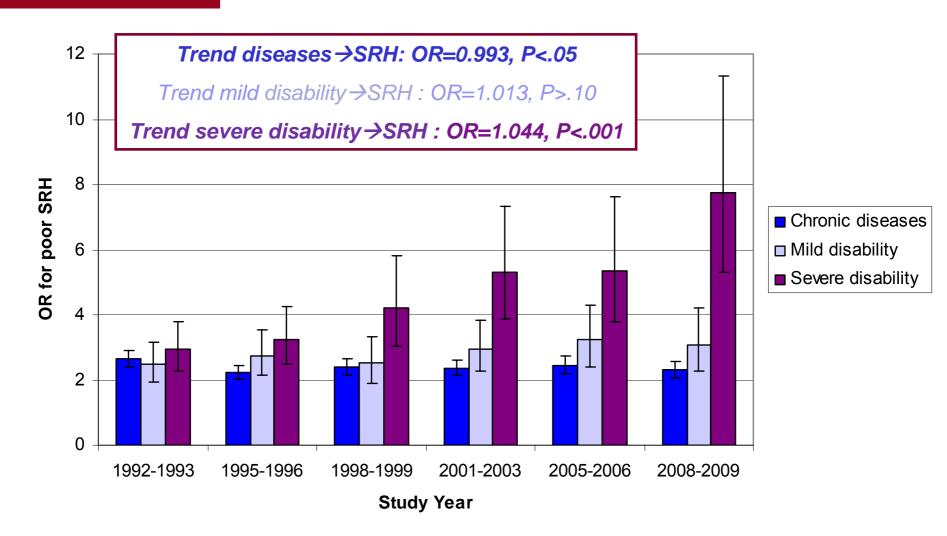


Trend in % poor SRH



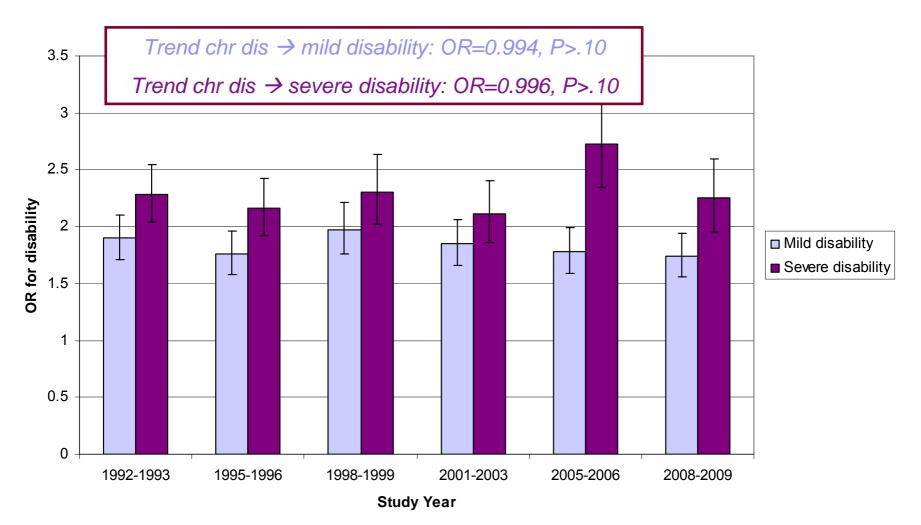


Trends in associations with SRH



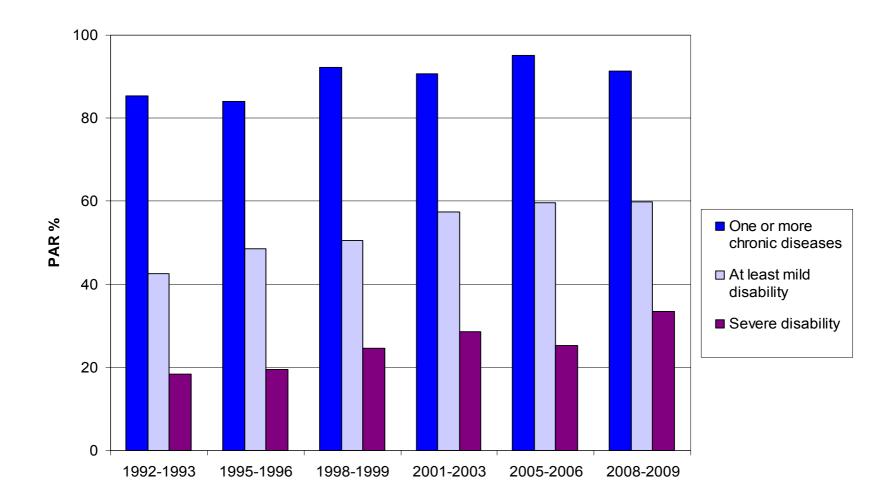


Chronic diseases and disability





Population Attributable Risk for poor SRH





Socio-demographic subgroups

- 75-85 years (vs. 60-74)
 - Stronger increases in number of chronic diseases and poor SRH
- Men (vs. women)
 - Stronger increase in number of chronic diseases
- Low educated (vs. higher educated)
 - Stronger increases in number of chronic diseases and poor SRH



Summary

- Is a better life expectancy associated with being in better health or feeling healthier?
 - Chronic diseases: -
 - Less important for SRH
 - Prevalence mild disability: -
 - Prevalence severe disability: =
 - More important for SRH
 - Prevalence poor SRH: =
- Associations have changed



- · Health trend is dependent on indicator
- Number of chronic diseases
 - Improved diagnosis and screening
 - Improved survival
 - Multimorbidity
 - > Inequalities



Discussion

Disability

- Distinction between mild and severe
 - Mild disability increased; severe disability remained unchanged
- Are diseases less disabling?
- Dynamic equilibrium (Manton, 1982)

Stable trend in self-rated health

- Association with determinants
 - Adaptation to increased prevalence of chronic diseases
 - Decreased acceptance of severe disability?

Stability of self-rated health hides underlying changes in health



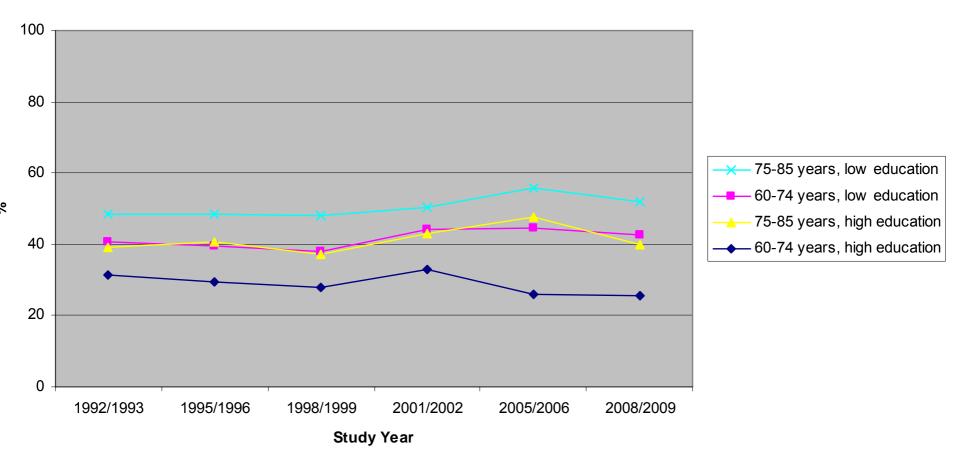
Questions?

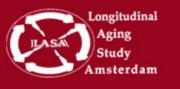
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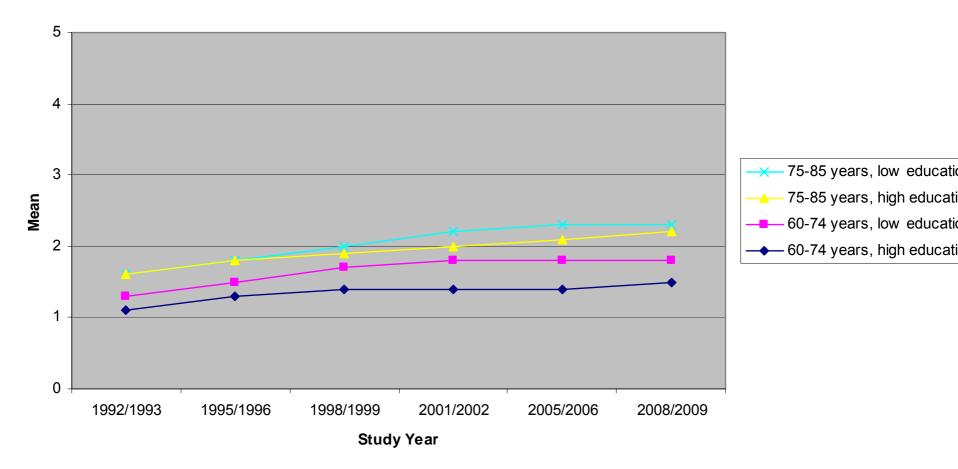


% with poor SRH





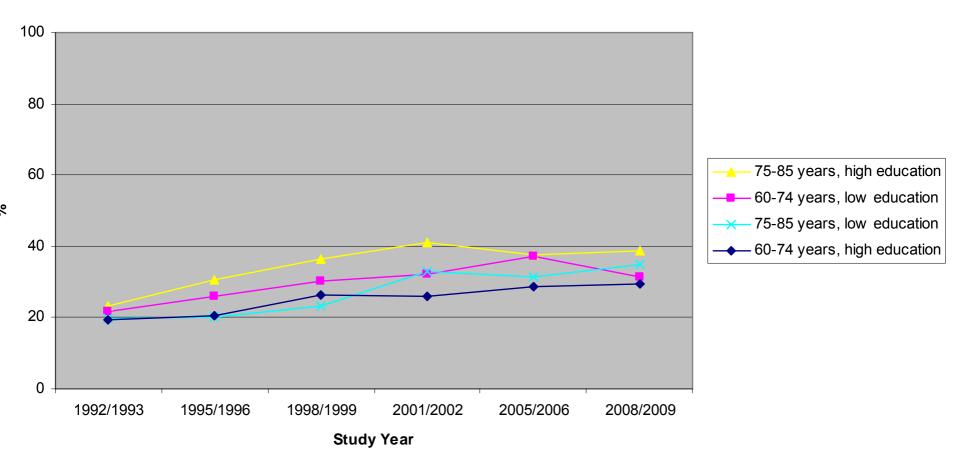
Number of diseases



Age- and gender-weighted

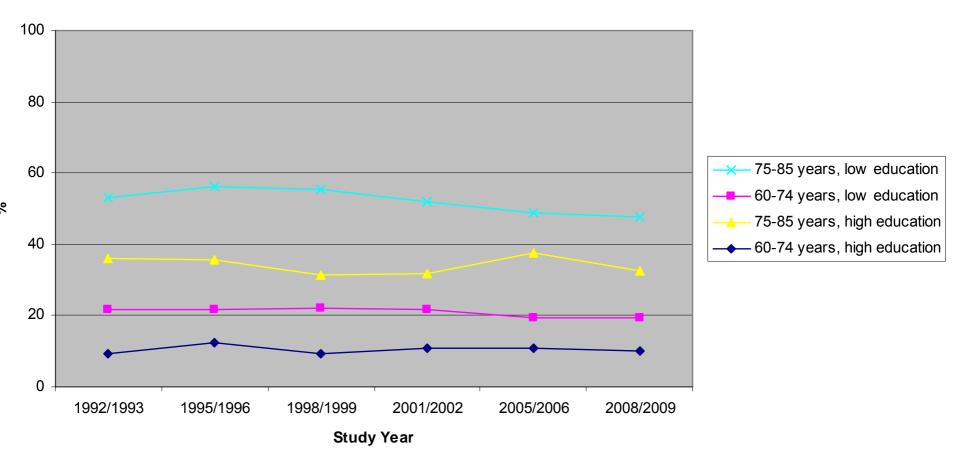


% with mild disability





% with severe disability





Trends in gezondheid

- 3 theorieën:
 - Expansie van morbiditeit/ongezondheid
 - Gruenberg, 1977
 - Compressie van morbiditeit/ongezondheid
 - Fries, 1980
 - Dynamisch equilibrium
 - Manton, 1982