

TRENDDS project team

TRENDDS Project team

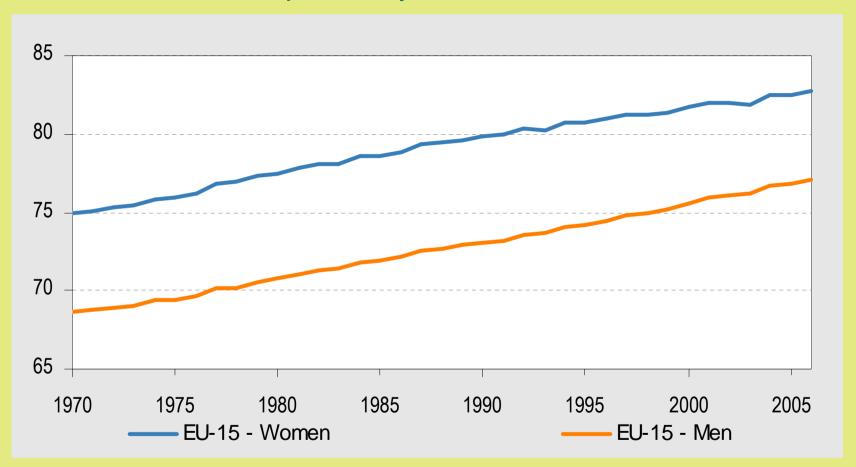
- Dorly Deeg, VUmc Amsterdam
- Mirjam de Klerk, SCP The Hague
- Wilma Nusselder, Erasmus MC Rotterdam
- Martin van Boxtel, UM Maastricht
- RIVM: Susan Picavet, Albert Wong,

Nancy Hoeymans, Coen van Gool



Why study activity limitations?

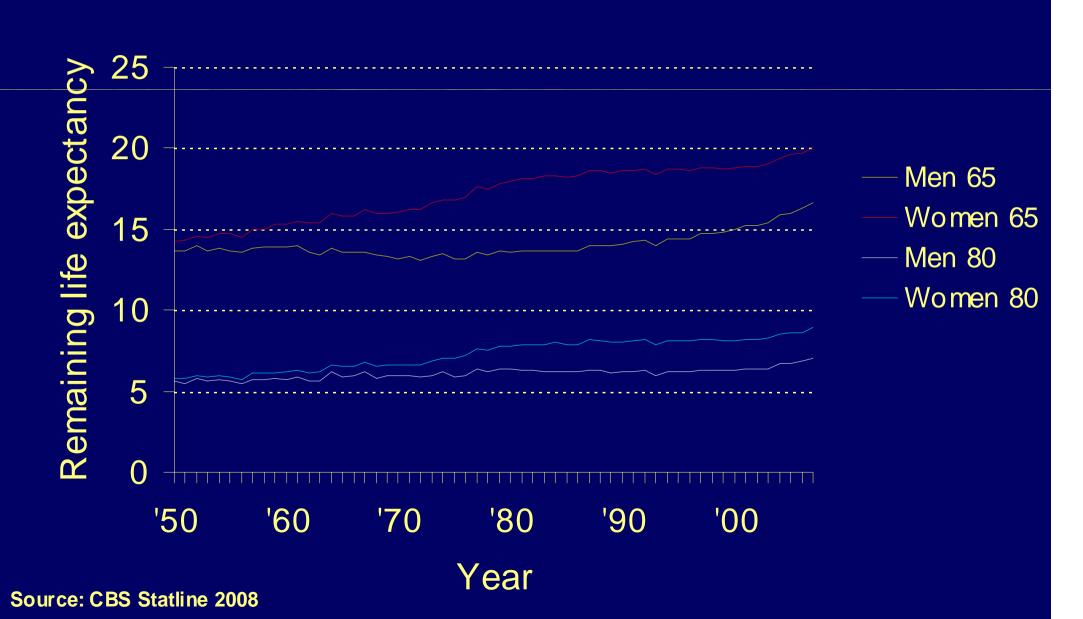
Increase of life expectancy



(source: Dutch National Health Compass, 2008)



Development of life expectancy from ages 65 and 80, the Netherlands



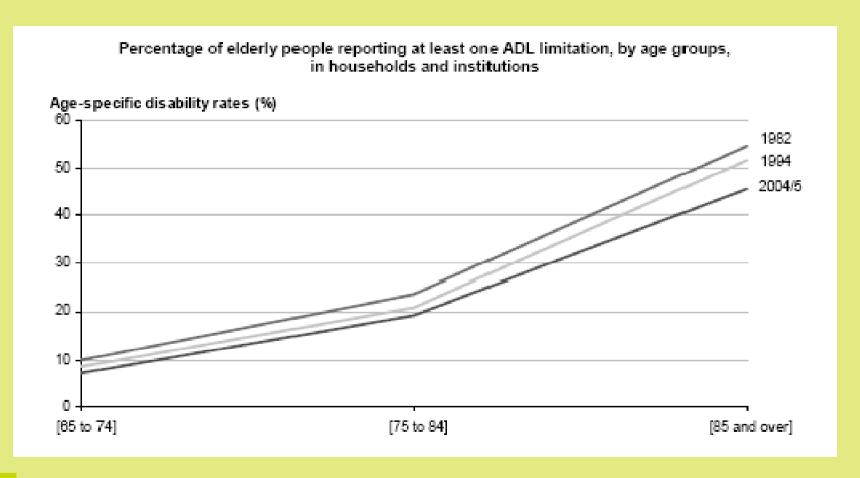
Activity limitations?

- 'Activity Limitations'
 - WHO International Classification of Functioning, Disability and Health (ICF)
 - Self-reported difficulties executing certain activities
- Which domains:
 - Self care (ADL): washing o. self / eating / toileting / getting dressed
 - Living independently (IADL): preparing meals / household chores
 - Mobility: stair climbing / walking / using public transportation / carrying a 5 kg bag of groceries for 10 meters



OECD: mixed trends in activity limitations

Decrease of activity limitations (US)



(source: LaFortune & Balestat, 2007; NLTCS)



Why study trends in activity limitations in the Netherlands?

- Internationally:
 - Increase in life expectancy;
 - Decrease in (severe) activity limitations
- Netherlands:
 - Life expectancy began increasing again
 - Conflicting findings on trends in activity limitations (e.g., Puts et al 2008, Portrait et al in press)



Study objectives

- Give best estimates of the time trend in activity limitations for the Dutch population aged 55-84:
 - -Same instruments as much as possible
 - -Identical distinction in severity
 - -Identical age groups
 - -Identical analyses



Study methods (1)

- Population-based studies
- Collecting original data on activity limitations
- Over period of 10 years minimum
- With 3 data collection points minimum
- Both genders represented
- Ages 55-84 or smaller age range within this bracket
- Excluding institutionalised



Study methods (2)

1. Repeated surveys

Mode

- AVO (Amenities and Services Utilisation survey; SCP; 1991-2003)

Quest

- POLS (Permanent Life Situation Survey; SN; 1990-2005)

Int+Quest

2. Longitudinal studies

- LASA (Longitudinal Aging Study Amsterdam; VUmc; 1996-2006)

Int+Quest

- MAAS (Maastricht Aging Study; UM; 1994-2006)

Quest

- DCS (Doetinchem Cohort Study; RIVM; 1995-2007)

Quest

Common data on stair climbing, walking, and getting (un)dressed, over period 1990 – 2007

Study methods

At least moderate limitations

Study	Instrum.	Wording	No lims.		
AVO	ADL	Ability to execute activities	Without difficulty	With difficulty	Only with help
POLS	ADL	Difficulty with activities	Without difficulty	Some difficulty / Great difficulty	Only with help
LASA	ADL	Ability to execute activities	Without difficulty	Some difficulty / Great difficulty	Only with help / No
MAAS	SF36	Limited in activities by health	Not at all	A little	Severe
DCS	SF36	Limited in activities by health	Not at all	A little	Severe



Severely limited

Analyses

Using a 3-step approach for 12 limitation outcome measures:

- 1. First: for each study, logistic GEE analyses using time as an independent variable to predict limitations, adjusted for age, gender
- 2. Then: for each study, calculate OR's from GEE analyses to odds ratios and confidence intervals

3. Finally: meta-analyses of study specific odds-ratios



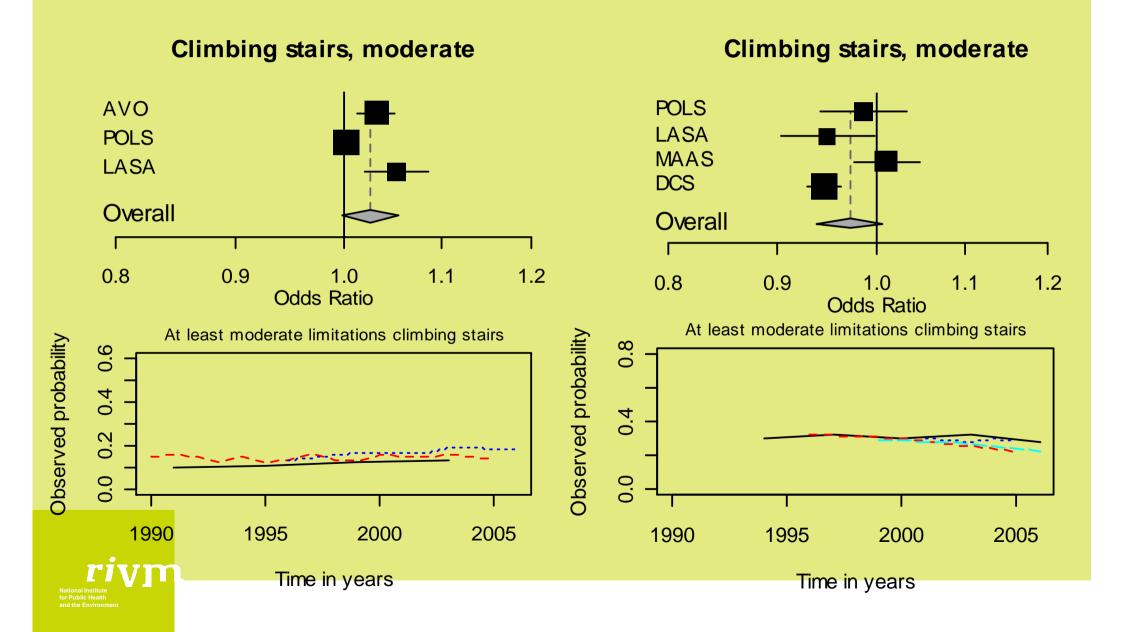
Age	Severe limitations	ADL	SF-36
55-64	Stair climbing	stable	stable
	Walking	stable	stable
	Getting (un)dressed	stable	stable
65-74	Stair climbing	stable	stable
	Walking	stable	stable
	Getting (un)dressed	stable	stable
75-84	Stair climbing	stable	stable
	Walking	stable	Not av.
	Getting (un)dressed	stable	Not av.



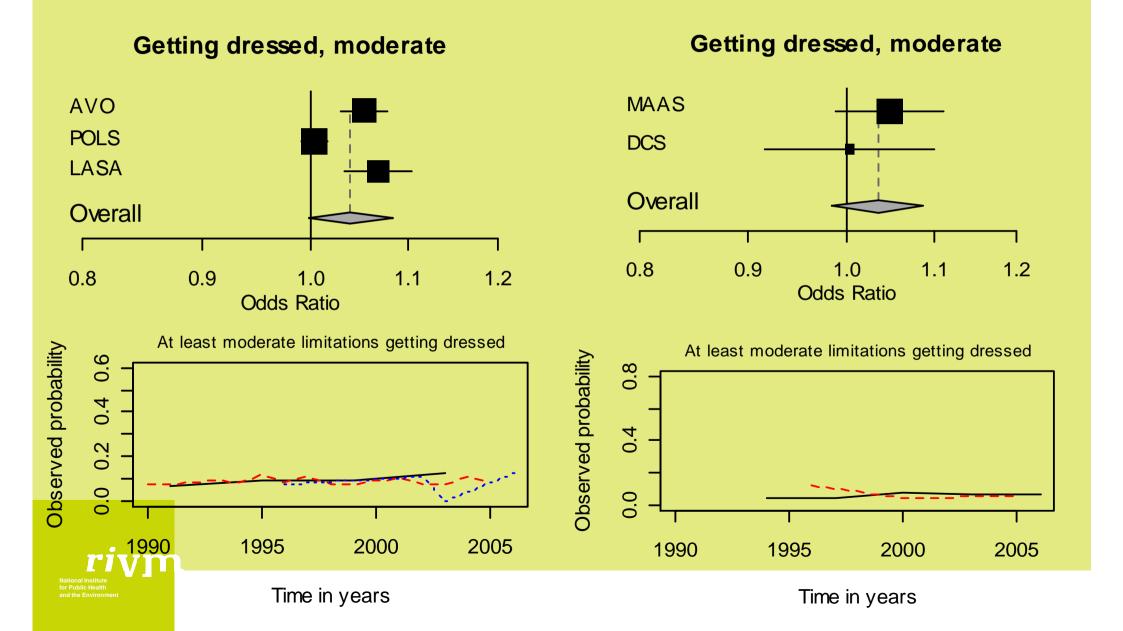
Age	At least moderate limitations	ADL	SF-36
55-64	Stair climbing	*	stable
	Walking	stable	stable
	Getting (un)dressed	stable	stable
65-74	Stair climbing	stable	stable
	Walking	stable	stable
	Getting (un)dressed	*	stable
75-84	Stair climbing	*	^*
	Walking	stable	Not av.
	Getting (un)dressed	stable	Not av.



age 55-64, ADL (left) SF-36 (right)

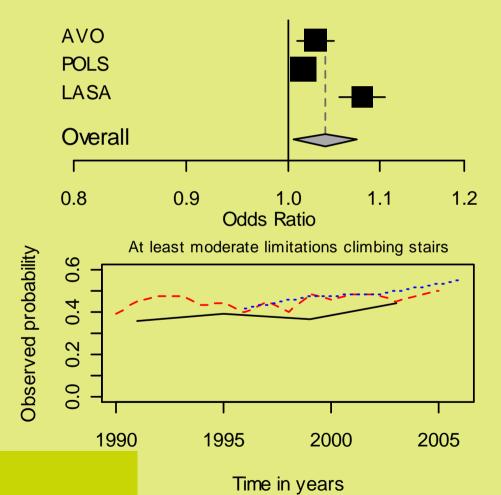


age 65-74, ADL (left) SF-36 (right)

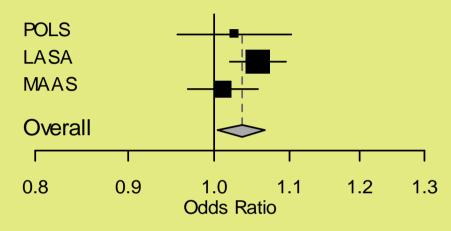


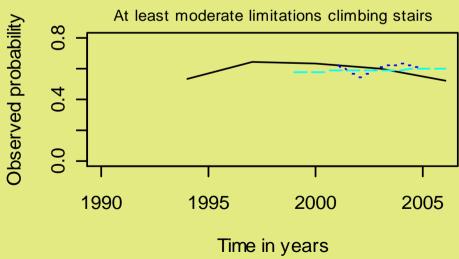
age 74-85, ADL (left) SF-36 (right)

Climbing stairs, moderate



Climbing stairs, moderate







Conclusions

- Overall trend = stability in severe activity limitations
 increase in some moderate limitations
- Different concepts SF-36 (health limiting ...) and ADL (difficulty)
- More older aged persons, increase in life expectancy, but no decrease in activity limitations...
- Conflicting developments may balance out institutionalisation ... life style ... assistive devices ... treatment of chronic conditions ... acceptance ...



TRENDDS Project team

- Dorly Deeg, VUmc Amsterdam
- Mirjam de Klerk, SCP The Hague
- Wilma Nusselder, Erasmus MC Rotterdam
- Martin van Boxtel, UM Maastricht
- RIVM: Susan Picavet, Albert Wong,

Nancy Hoeymans, Coen van Gool

