

Disability-free life expectancies at age 65, Great Britain, 1980-2001

Claudia Breakwell, Madhavi Bajekal

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Update work carried out by Bone and Bebbington.

 Previous work looked at different types of DFLE based on ADLs and LLSI.

 Bebbington showed some evidence for a dynamic equilibrium, while LE increases DFLE doesn't show the same improvement but health expectancies based on more severe levels of disability remain either constant or were compressed.

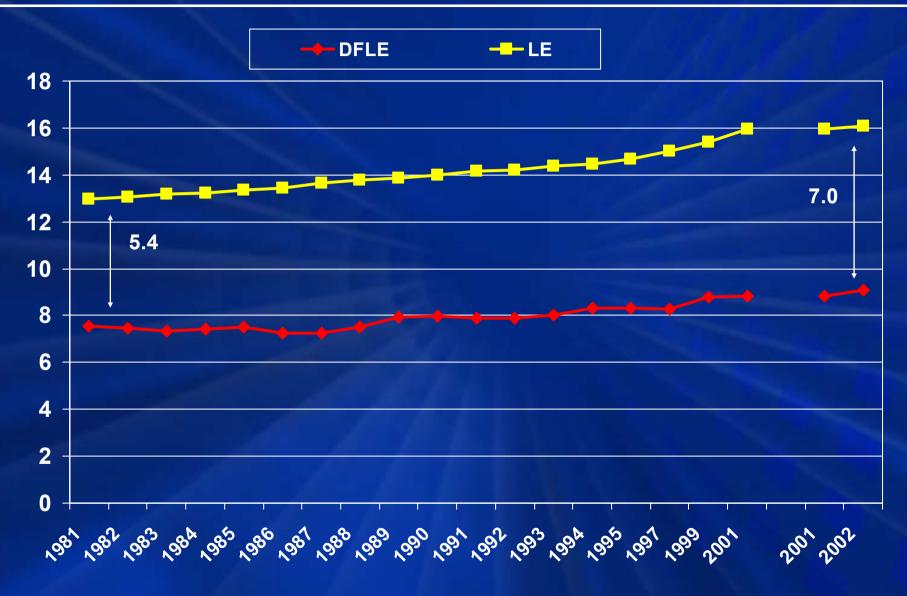
Structure of the presentation

 Great Britain annual estimates: what we already know and what the recent results show

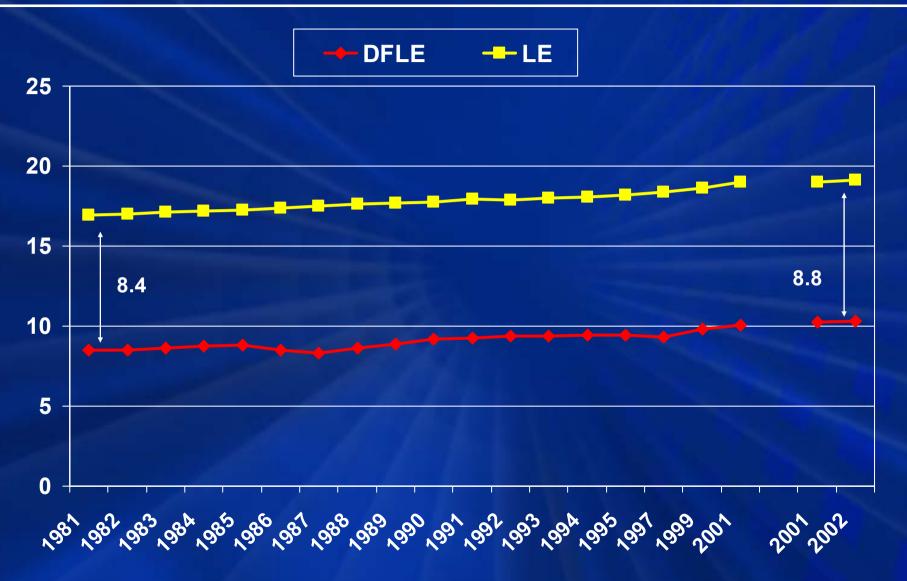
 Results: 3 types of DFLE at age 65 for men and women in Great Britain between 1980 and 2001

 And finally: what conclusions can been drawn and how do these results compare with the rest of the world...

LE and DFLE for men at age 65 in Great Britain, 1981-2002



LE and DFLE for women at age 65 in Great Britain, 1981-2002



Mild, moderate and severe disability-free life expectancy

- Disability-free life expectancy (DFLE) based on self reported no limiting longstanding illness (this indicator used for national monitoring)
- Active life expectancy based on ability to perform Instrumental Activities of Daily Living (IADLs e.g. shopping, preparing meals and cleaning windows) without human assistance
- **Dependency-free life expectancy** based on ability to perform Activities of Daily Living (ADLs e.g. bathing, feeding and getting in and out of bed) without human assistance.
- NB: Findings of this research are tentative and must not be reported or circulated without authors permission

Sources & Methods

Data sources:

- Mid-year population estimates provided by ONS
- Life tables provided by GAD (3 year average)
- Health status in households: rates of limiting longstanding illness and dependence in IADLs and ADLs, GHS (1980,1985,1994,1998,2001)
- Health status and population in communal establishments, Census (1981, 1991, 2001) and UK Disability Survey (1986-8)
- Method:

Sullivan's method to calculate health expectancies

Definitions: Mild DFLE (1)

Mild Disability-free Life Expectancy

'Do you have any long-standing illness, disability or infirmity? By long-standing I mean anything that has troubled you over a period of time or that is likely to affect you over a period of time.
If 'Yes':
(a) What is the matter with you?
(b) Dece the illness or disability (Deceny of these illnesses or disability)

(b) Does the illness or disability (Do any of these illnesses or disabilities) limit your activities in any way?"

	Men	Women	Persons
 Yes 	40.1%	40.9%	40.6%
• No	59.9%	59.1%	59.4%

Communal establishment disability rates based on the Census:
 'Do you have any long-term illness, health problem or disability which limits your daily activities or the work you can do?'

Definitions: Moderate DFLE (2)

Moderate disability-free life expectancy

Private household disability rates based on the GHS questions on ability to perform Instrumental Activities of Daily Living without human assistance...

- Shopping
- Cooking a hot meal
- Cleaning windows inside
- Vacuuming
- Washing a small amount of clothes by hand

Dependent in one or more of the above activities:

	Males	Females	Persons
Yes	18.1%	28.1%	23.7%
No	81.9%	71.9%	76.3%

 No available IADL dependence rates for people who live in communal establishments, they were estimated as being half way between the rates for LLSI and ADL dependence.

Definitions: Severe DFLE (3)

Severe disability-free life expectancy

Private household disability rates based on the GHS questions on ability to perform Activities of Daily Living without human assistance...

- Bathing
- Getting to and from the toilet
- Getting in and out of bed
- Feeding

Dependent in one or more of the above activities:

	Males	Females	Persons
Yes	5.5%	9.0%	7.5%
• No	94.5%	91.0%	92.5%

 Communal establishment disability rates are based on the UK Disability Survey 1986-8 which asked the same questions.

Overview of analysis

 Gender differences: overall difference by sex using 2001 estimates as example

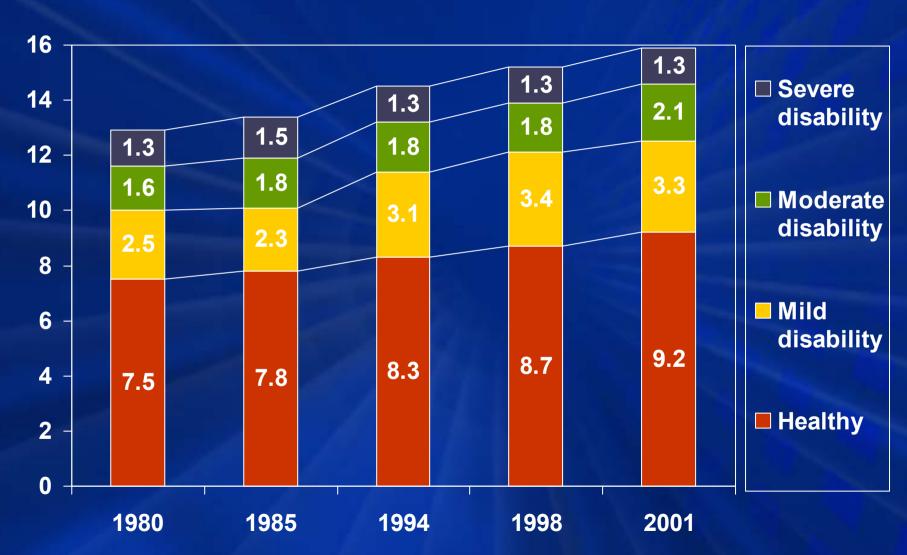
Trends between 1981 and 2001 (estimated using data for five time points - 1980, 1985, 1994, 1998, 2001).

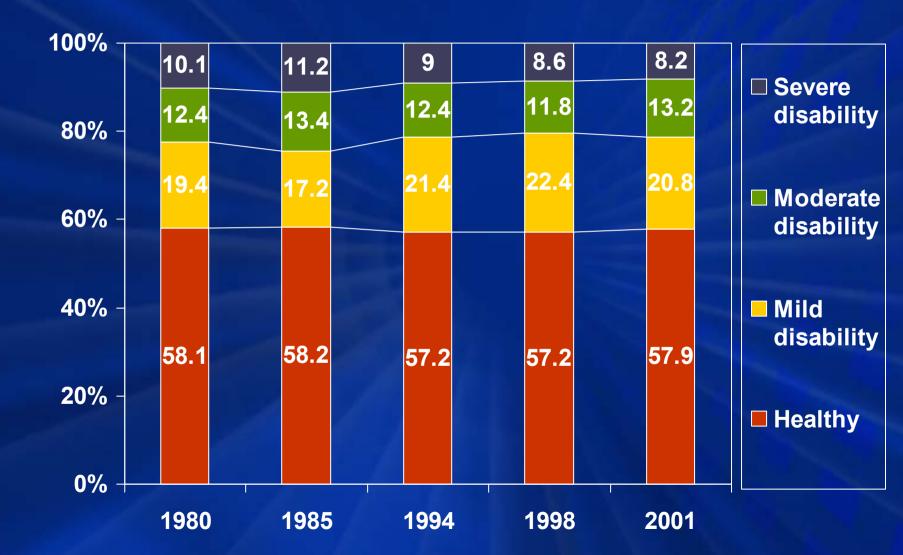
2001, Great Britain

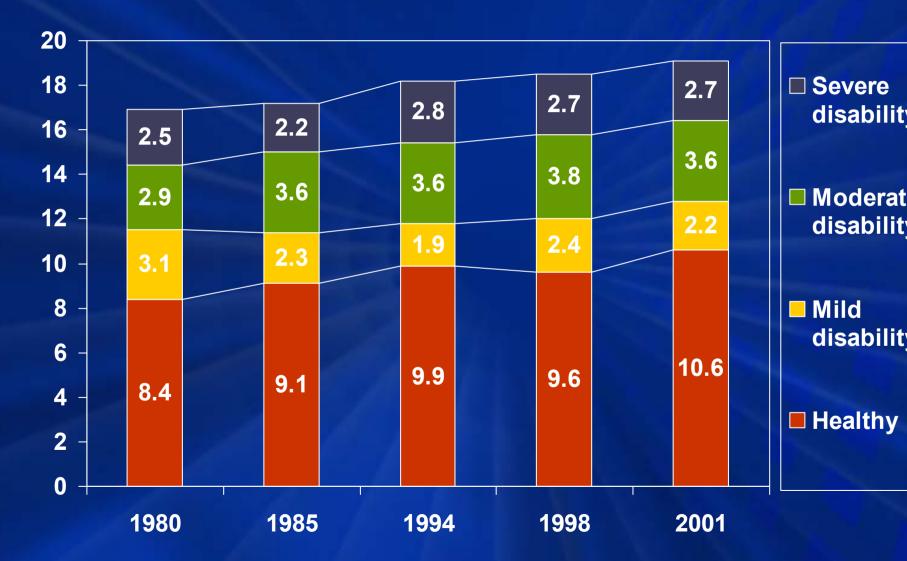
<u>Years</u>	Men	Women
Life Expectancy	15.9	19.0
Mild DFLE	9.2	10.6
Moderate DFLE	12.6	12.8
Severe DFLE	14.7	16.3

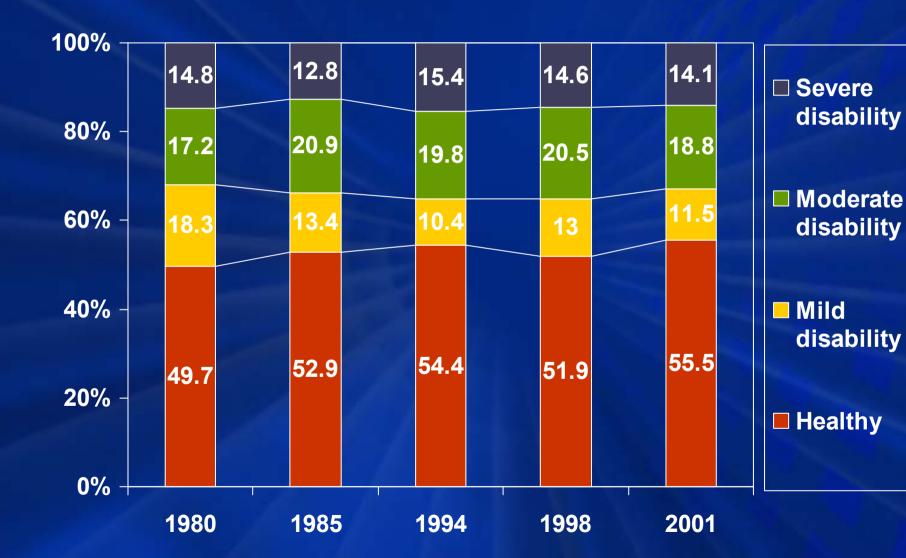
levels of disability at age 65 by sex. 2001, Great Britain

Years	Men	Women	Proportion of expected life	Men	Women
_ife expectancy	15.9	19.0			
Healthy	9.2	10.6	Healthy	57.8%	55.5%
Vild disability	3.3	2.2	Mild disability	20.9%	11.6%
Moderate disability	2.1	3.6	Moderate disability	12.2%	18.8%
Severe disability	1.3	2.7	Severe disability	8.0%	14.1%









by sex, 1980 vs 2001

Men	1980	2001	Women	1980	2001
Healthy	57.6%	57.8%	Healthy	49.6%	55.5%
Mild disability	19.5%	20.9%	Mild disability	18.5%	11.6%
Moderate disability	12.5%	12.2%	Moderate disability	17.0%	18.8%
Severe disability	10.4%	8.0%	Severe disability	14.8%	14.1%

Preliminary conclusions:

- Gender Differences:
 - Men can expect to spend a larger proportion of their remaining life free from disability compared to women.
 - Men can also expect to spend a higher proportion of remaining life with a mild disability, whereas women spend more time with a moderate or severe disability
- Trends: are not the same for men and women.
 - The amount of time spent healthy for women has increased since 1980, supporting the theory of compression of morbidity
 - For men, the magnitude of the change less marked: proportion of life with mild disability has increased and severe disability decreased, supporting the theory of dynamic equilibrium.

Limitations

- Uneven time points
- Not enough time points to see a definite trend
- Need to check consistency of finding with other survey sources (e.g. Health Survey for England)
- Response rate for the GHS is falling
- Assumptions had to be made about the health of those in long-stay care homes
- Severe disability definition fairly objective, but moderate/ mild disability definitions more likely to vary with social factors, cultural norms and environmental factors.

International comparisons

European Countries

- Trends in DFLE at age 65 across the EU countries have been shown not to be consistent – Data from the ECHP for the years 1995-2003 (Robine, Jagger et al 2005).
 - France and Greece were also showing a stable trend in DFLE for men.
 - Belgium, Spain, France, Italy, Austria and Sweden were also showing an increasing trend for women.

• USA

 Crimmins et al (1989) reported that for people at age 65 in the USA there was no improvement in the proportion of life spent free from a disability, but there was a marked improvement in the proportion of life spent with more severe disability.

Australia

 Unlike other developed countries, health expectancies trends suggest an expansion of morbidity is occurring at all level of disability (Mathers 1991).



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