



AGEING WELL

- *Although advancing age is associated with physical and cognitive decline, wellbeing is consistently found to be higher in later life than among young or middle aged adults, however it subsequently is found to decline in the oldest old*
- *Affective, eudemonic and evaluative wellbeing all predict future subjective health, suggesting that impaired wellbeing is not just a product of poor health, but it is also systematically associated with the development of poor health*
- *The influence of social relationships on the risk of death are comparable to other established mortality risk factors such as smoking and alcohol consumption, and actually exceed the influence of physical activity and obesity*
- *Survival over an average of more than nine years was associated with greater enjoyment of life. Effects were large, with the risk of dying being around three times greater among individuals in the lowest (compared with the highest) third of enjoyment of life*

1. Wellbeing in an ageing population

- The UK population is ageing. The 'oldest old' are the fastest growing sector in society; one in six people are currently over 65, and it is estimated that by 2033, nearly a quarter of the population will be 65 and over¹. Ageing well is thus important, particularly in relation to cost of health care and sustainability of health budgets. The absence of physical disease and disability are common criteria for successful ageing, however **when older people are asked what successful ageing is, they say things like contentment with life, being socially connected, and able to pursue their interests**².
- A *paradox of ageing* has been observed in later life: **although advancing age is associated with physical and cognitive decline, wellbeing is consistently found to be higher in later life than among young or middle aged adults**². This has been observed for the evaluative, affect and eudemonic components of subjective wellbeing (see Figure 1) where those aged 65-79 report significantly higher ratings for feeling worthwhile and happiness than any other age group. However, there is a dip after this peak at age 80 when people gave lower average wellbeing ratings, and there is also a decline in self-reported anxiety from those in their mid-50s and older³.
- Interestingly, this relationship appears to be unique to the UK as other European countries tend to report a decline in wellbeing (particularly happiness) with age⁴.

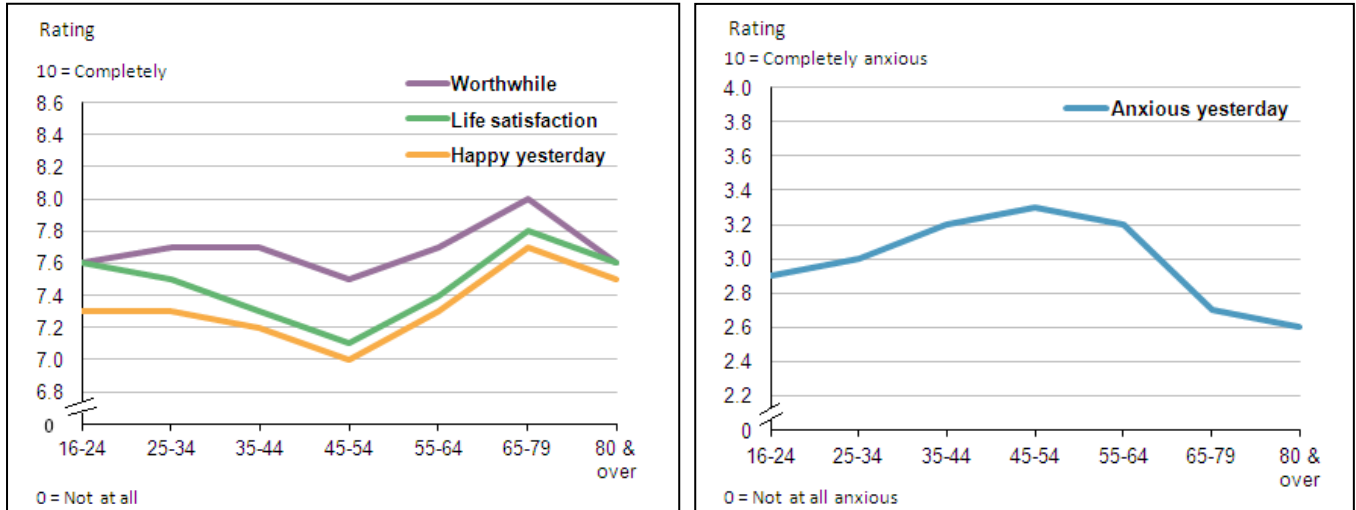


Figure 1: Subjective wellbeing by age group (Annual Population Survey 2012-2013)

- Among older people (65 and over), the pattern of wellbeing can be further divided and suggests **high levels of wellbeing in the early post-retirement years, followed by lower levels of wellbeing in later old age (75 and over)**⁵. The English Longitudinal Study of Ageing confirms this, for example, demonstrating that depression is lower in middle age groups (60-79) and substantially higher in the oldest age group (80 and over). This pattern was also demonstrated for eudemonic wellbeing (see Figures 2 and 3)⁶.
- However, gender differences appear in the data. The peak in early old age is not apparent among women, and women demonstrate a pronounced decline in wellbeing in later old age⁵. This also chimes with the English Longitudinal Survey of Ageing which also suggests **women aged 80 and over are the most vulnerable group for wellbeing, showing lower levels of life satisfaction and greater levels of depressive symptoms**⁶.

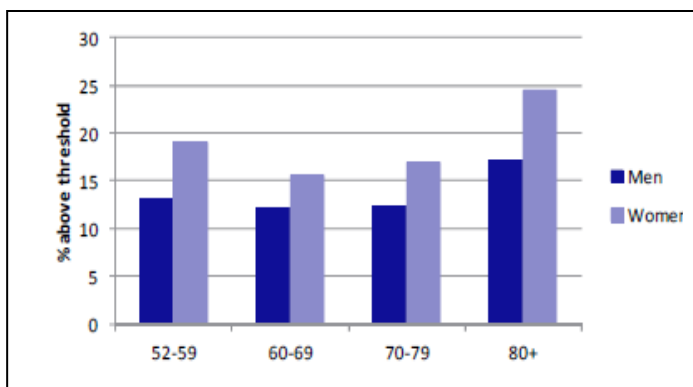


Figure 2: Elevated depressive symptoms by age and sex (ELSA wave 5)

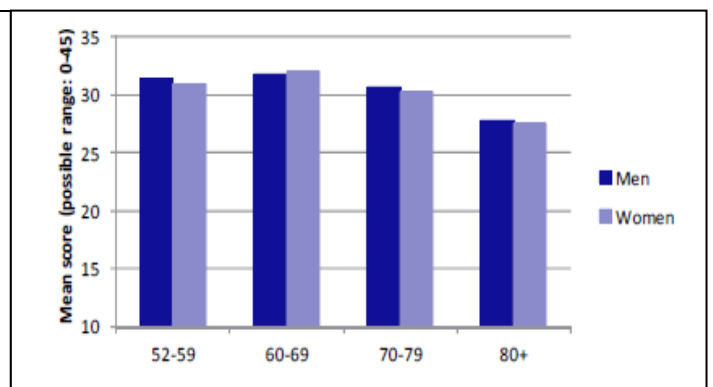


Figure 3: Eudemonic wellbeing by age and sex (ELSA wave 5)

2. Health behaviours and wellbeing

- **There was a graded association between self-reported health and wellbeing;** the odds of people rating their health as 'poor' were higher for people with lower wellbeing at baseline. **Affective, eudemonic and evaluative wellbeing all predict future subjective health,** suggesting that impaired wellbeing is not just a product of poor health, but it is also systematically associated with the development of poor health⁶.
- **Engaging in physical activity is paramount to ageing well.** Being physically active is inextricably linked to independent living and other factors such as social support, both of which are crucial aspects for wellbeing in older adults. Regular physical activity is also linked to improvements in immune function and resistance to illness².
- Longitudinal research suggests **those who are sedentary are much more likely to be depressed than those who are active** (33% compared with 12%). Large differences were noted for enjoyment of life and positive affect⁶. A systematic review of the literature also found a small but significant effect of exercise on mental wellbeing, suggesting exercise can improve wellbeing in adults aged 65 and over⁷.
- **Smoking is detrimental to wellbeing in older adults.** Current smokers were significantly more depressed than ex-smokers or those who had never smoked (26% compared with 13% and 15%). Notable differences were also seen for enjoyment of life, however differences were small for positive affect and life satisfaction⁶.
- Longitudinal research suggests **diet and alcohol consumption had less effect on wellbeing in older adults.** Alcohol consumption had a small impact on wellbeing measures. Those who ate 5 portions of fruit and vegetables a day were less likely to be depressed than those who did not meet these recommendations, however other measures of wellbeing did not demonstrate large differences⁶.
- Sleep is often reduced or disrupted in later life. Evidence suggests poor sleep is associated with poor immune function, and negative psychosocial factors are associated with poor sleep. A study using the Whitehall II cohort found higher levels of hedonic and eudemonic wellbeing predicted fewer sleep problems, even when controlling for negative affect. For example, **sleep problems were 47% higher in people experiencing no positive affect in the day, and 141% higher in people in the lowest eudemonic wellbeing quintile compared with the highest quintile**⁸.

3. Wellbeing, ageing and leisure time

- Loneliness typically involves feeling anxious about a lack of connectedness with others and a discrepancy between desired relationships and actual relationships. However, loneliness is not the same as being alone, and can be felt, even when surrounded by other people⁹. Data consistently suggests 6-13% older adults report feeling lonely always or often¹⁰, however **those**

aged 80 and over were more likely to report feeling lonely often than those aged 52-79¹¹. Women aged 52 and older are more likely to report feeling lonely in each age group than men¹¹ (see Figure 4).

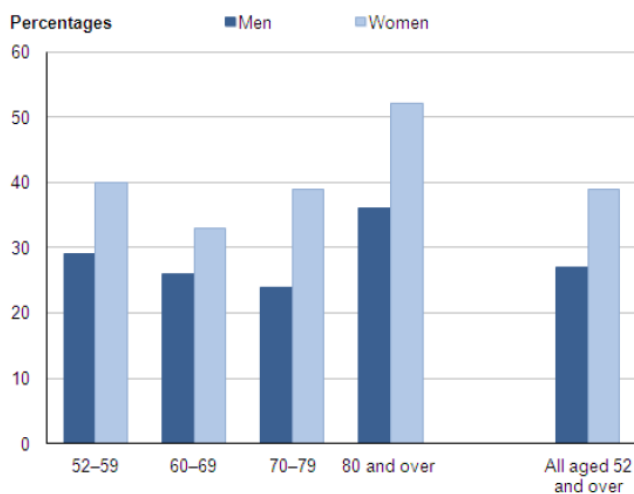


Figure 4: Frequency of feeling lonely by age group and gender (ELSA Wave 5)

- Loneliness has a significant detrimental effect on people's health. For example, loneliness is associated with increased risk of mortality over a 6 year follow up period in older adults (aged 60 and over)¹². **The influence of social relationships on the risk of death are comparable to other established mortality risk factors such as smoking and alcohol consumption, and actually exceed the influence of physical activity and obesity¹³.**
- **Loneliness can also have significant detrimental effects on older people's wellbeing.** For example, 89% of older adults who reported hardly ever feeling lonely also reported high levels of life satisfaction, compared with 38% of older adults reporting feeling lonely often¹¹.
- **Ability to travel, either independently or by public transport, is a key factor in preventing social exclusion and fostering social connectedness among older people,** all of which have implications for wellbeing¹⁴. Travel declines with age, however those aged 70 and over use buses most compared with other age groups¹⁵.
- Informal carers make up 10% of the population, with the biggest group being females aged 55-59. However, **informal caring for 50 or more hours a week was more common in adults aged 50 and over** compared with other age groups (see Figure 5)¹⁶. Older carers are more likely to provide intimate personal care and heavy nursing tasks, and are more likely to be caring for a husband, wife or partner¹⁷.
- Older people caring for their partners with a long term limiting illness show a significant negative association with their own subjective wellbeing. Physical and mental functioning act as confounding factors¹⁸.

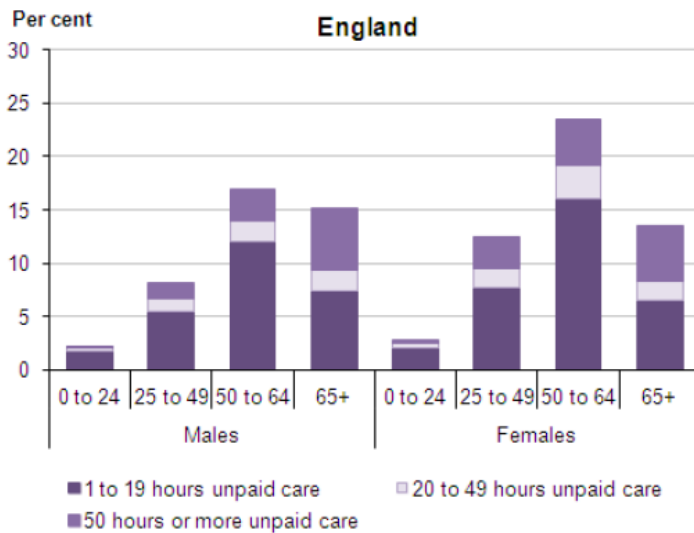


Figure 5: Unpaid care provision by age and gender (Census 2011)

- Carers are more likely to report their health as 'not good' compared with those who do not provide informal caring. The proportions of people reporting their health as 'not good' was related to the amount of care they gave, for example, those who cared for 50 hours or more a week had the worst health (see Figure 6)¹⁶.

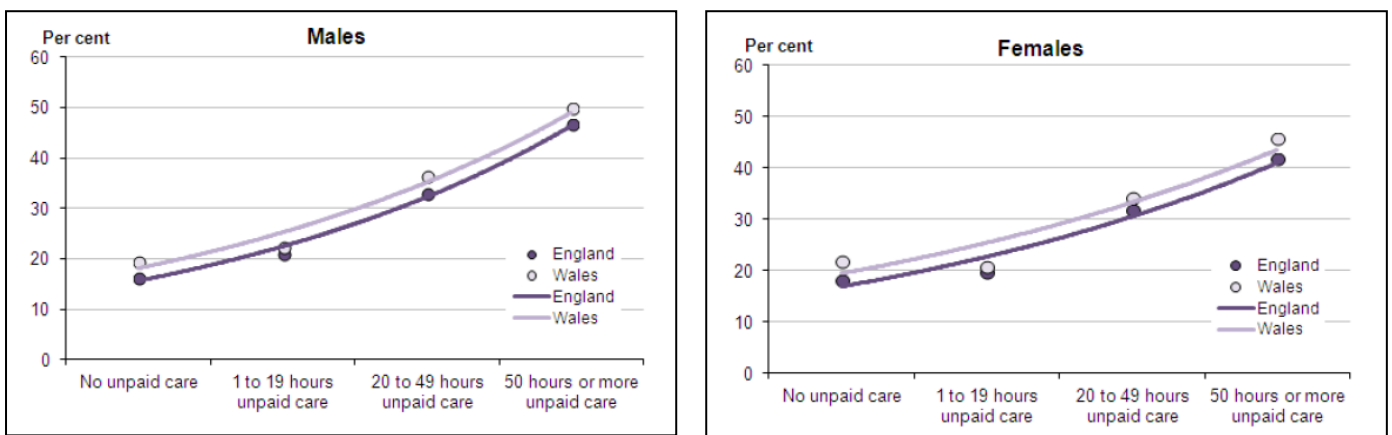


Figure 6: Percentage of males and females with 'not good' general health by unpaid care provision (Census 2011)

- Older people who are carers can experience lower levels of wellbeing due to feeling isolated, lacking in social activities and difficulty leaving the house** as they cannot leave the person they care for alone. Older carers also neglect their own health as they focus on the person they are caring for¹⁷.

4. Wellbeing, ageing and mortality

- Wellbeing is inversely related to all-cause mortality in older people.** Mortality rates in those aged 75 and over were 19% for those with high wellbeing, compared with 30% for those with lower wellbeing. High levels of wellbeing (positive life orientation) predicted good survival prognosis both among men and women, and along among the old (75-85 years) and the oldest old (85 years and over)¹⁹.

- **Wellbeing is associated with survival in older populations (aged 60 and over)**²⁰. A one unit increase in positive affect was associated with an 18% decrease in mortality risk in people aged 65 and over²¹. Feeling needed was the strongest indicator for good survival in those aged 75 and over¹⁹.
- **Survival over an average of more than nine years was associated with greater enjoyment of life.** Effects were large, with the risk of dying being around three times greater among individuals in the lowest (compared with the highest) third of enjoyment of life. These effects were independent of age, sex, ethnicity, wealth, education, baseline health and other factors (see Figure 7)⁶.

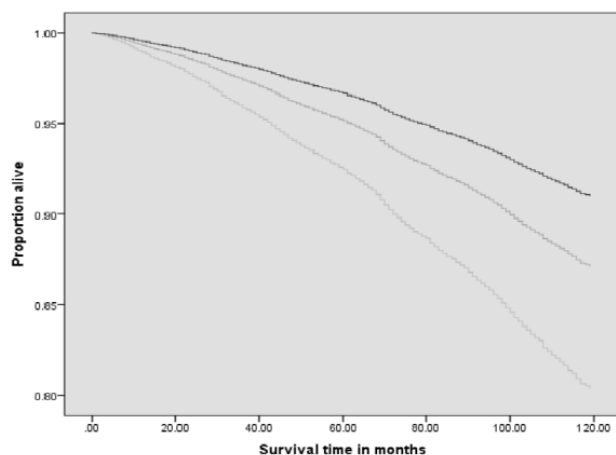


Figure 7: Survival curves showing the proportion of people who were alive in the highest (darkest), medium (middle) and lowest (lightest) tertile of enjoyment of life.

- Stress can exacerbate the effects of old age on immune functioning. Evidence suggests **wellbeing predicts better immune functioning in older adults** – this has been found both in healthy adults and clinical samples, and is independent of poor health².

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¹ Medical Research Council (2008). Lifelong Health and Wellbeing Programme.

<http://www.mrc.ac.uk/Ourresearch/ResearchInitiatives/LLHW/index.htm>

² Friedman (2012). Wellbeing, ageing and immunity. In Segerstrom (Ed.) *The Oxford Handbook of Psychoneuroimmunology*. Oxford University Press: New York

³ Office for National Statistics (2013) *Personal Wellbeing in the UK*. http://www.ons.gov.uk/ons/dcp171778_319478.pdf

⁴ A Compendium of Factsheets: International Comparisons of Wellbeing and Health. *Department of Health*

⁵ Chanfreau, J., Lloyd, C., Byron, C., Roberts, C., Craig, R., De Feo, D., & McManus, S. (2013) *Predicting Wellbeing*. Prepared by NatCen Social Research for the Department of Health. <http://www.natcen.ac.uk/media/205352/predictors-of-wellbeing.pdf>

⁶ Steptoe, Demakakos & de Oliverira (2012). The psychological wellbeing and health functioning of older people in England. *The Dynamics of Ageing: Evidence from the English Longitudinal Study of Ageing 2002-10*

- ⁷ Windle, Hughes, Linck (2010). Is exercise effective in promoting mental wellbeing in older age? A systematic review. *British Journal of Sports Medicine*, 45, 1079-1080
- ⁸ Steptoe, O'Donnell, Marmot & Wardle (2008). Positive affect, psychological wellbeing and good sleep. *Journal of Psychosomatic Research*, 64, 409-415
- ⁹ Mind (2013). http://www.mind.org.uk/mental_health_a-z/7991_how_to_cope_with_loneliness
- ¹⁰ Campaign to End Loneliness (2011). *Safeguarding the Convoy: A Call to Action*. <http://www.campaigntoendloneliness.org.uk/wp-content/plugins/email-before-download/download.php?dl=b33f474ad030cffe90539cd2ce155a2>
- ¹¹ Office for National Statistics (2013a). *Measuring National Wellbeing – Older People and Loneliness* http://www.ons.gov.uk/ons/dcp171766_304939.pdf
- ¹² Perissinotto, Stijacic & Covinsky (2012). Loneliness in older persons: a predictor of functional decline and death. *JAMA Internal Medicine*, 172 (14), 1078-1084.
- ¹³ Holt-Lunstad J, Smith TB, Layton JB (2010) Social Relationships and Mortality Risk: A Meta-analytic Review. *PLoS Medicine* 7(7)
- ¹⁴ WVRS (2013). *Going nowhere fast: impact of inaccessible public transport on wellbeing and social connectedness of older people in Great Britain*.
- ¹⁵ National Travel Survey (2011). *Statistical Release*. Department for Transport.
- ¹⁶ Office for National Statistics (2013b). *Full story: the gender gap in unpaid care provision: is there an impact on health and economic position?* http://www.ons.gov.uk/ons/dcp171776_310295.pdf
- ¹⁷ Age UK (2010). *Invisible but invaluable: Campaigning for greater support for older carers*.
- ¹⁸ Booker & Sacker (2012). Limiting long term illness and subjective wellbeing in families. *Longitudinal and Life Course Studies*, 3 (1), 41-65
- ¹⁹ Tilvis, Laitala, Routasalo, Strandberg, Pitkala (2012). Positive life orientation predicts good survival prognosis in old age. *Archives of Gerontology and Geriatrics*, 55, 133-137
- ²⁰ Chida & Steptoe (2008). Positive psychological wellbeing and mortality: a quantitative review of prospective observational studies. *Psychosomatic Medicine*, 70, 741-756
- ²¹ Weist and Schüz (2011). Subjective wellbeing and mortality revisited: differential effects of cognitive and emotional facets of wellbeing on mortality. *Health Psychology*, 30 (6), 728-735