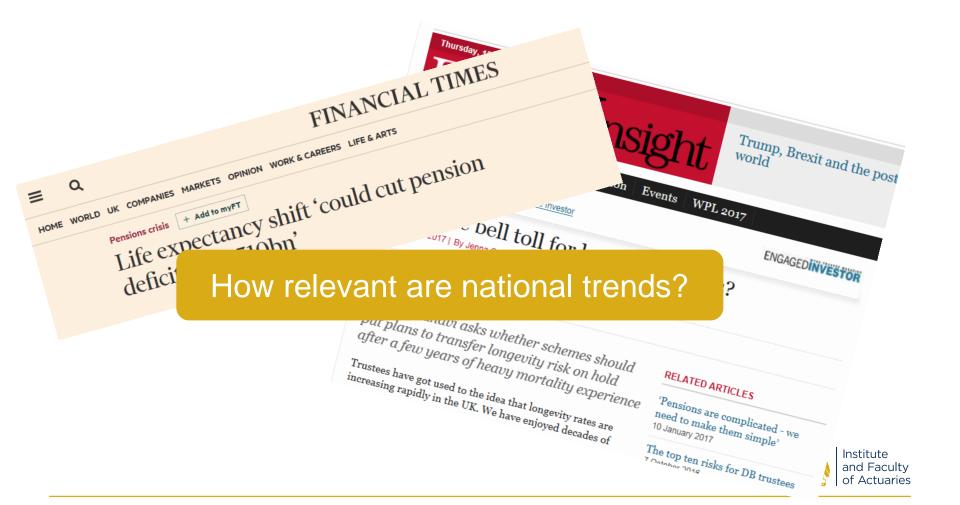


Mind the Longevity Gap...

Steven Baxter, Club Vita LLP

steven.baxter@clubvita.co.uk



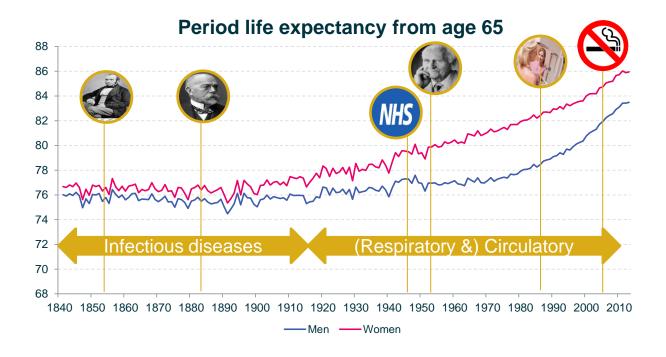






Does socio-economics matter?

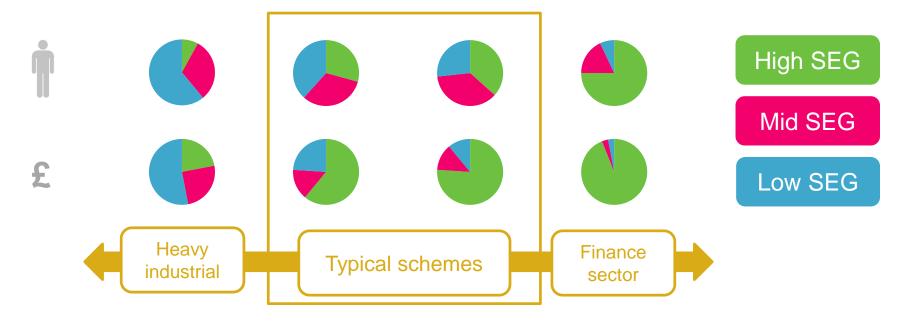
170 years of longevity...





Source: Hymans Robertson using data from ONS and Human Mortality Database

Why socio-economics matter



Source: Club Vita. Coloured areas relate to Club Vita based socio-economic classes (VitaSegments)







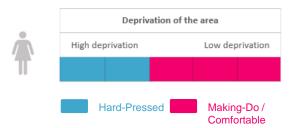
Introducing socio-economic groupings

VITASEGMENTS

Key features

- Calibrated to over 20 years of pension scheme back history
- Based on 2m+ lives / 60k annual deaths
- 3. Use widely available variables
- Statistically credible groups capturing differences in historical mortality improvements

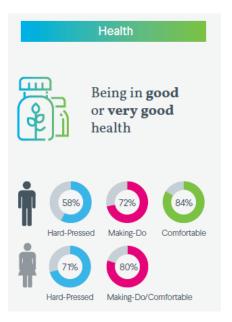


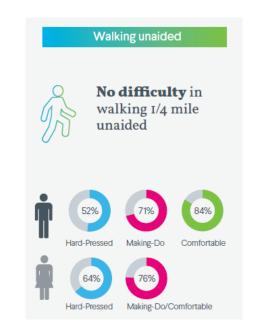


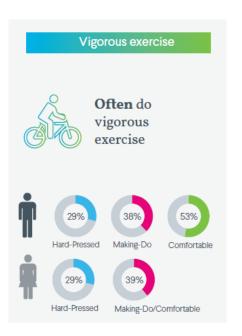


Source: Club Vita

Different behaviours









Source: "Longevity trends: Does one size fits all?" published by PLSA in collaboration with Club Vita and based upon data from the English Longitudinal Study of Ageing

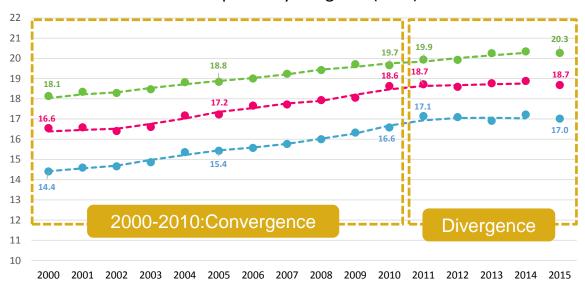




Recent longevity trends

Latest emerging evidence

Life Expectancy at age 65 (men)





Notes to char

(i) Points relate to life expectancy for the calendar year (using crude mortality smoothed over the age range via a Gompertz curve)

ii) Dashed lines apply three year smoothing i.e. calendar year and year prior and after)

(iii) Labels relate to the values for the points



Source: Club Vita analysis for PLSA longevity trends report 2017

Underlying improvements



Group	Annualised mortality improvement (age-standardised)		
	2000-2005	2005-2010	2010-2015
England & Wales	2.8% (±0.1%)	2.8% (±0.1%)	1.1% (±0.1%)
Club Vita	2.4% (±0.5%)	2.8% (±0.3%)	1.3% (±0.4%)
Comfortable	2.4% (±1.1%)	2.1% (±0.8%)	2.1% (±0.7%)
Making-do	2.2% (±0.8%)	3.2% (±0.5%)	0.9% (±0.6%)
Hard-pressed	2.5% (±0.7%)	2.9% (±0.5%)	1.0% (±0.6%)







Institute and Faculty

- Pension scheme improvements mirror national data on a **lives** basis (including recent slowdown)
- Comfortable men who dominate liabilities seen **stabler** improvements and no recent slow down
- Lower socio-economic groups had been catching-up (convergence, 2005-2010)...but recently slowed down (divergence, 2010-2015)

Source: Club Vita / Hymans Robertson. Confidence intervals calculated consistently with the approach set out in CMI WP97

Underlying improvements



Group	Annualised mortality improvement (age-standardised)		
	2000-2005	2005-2010	2010-2015
England & Wales	1.6% (±0.1%)	2.4% (±0.1%)	0.3% (±0.1%)
Club Vita	0.7% (±0.5%)	2.7% (±0.3%)	0.6% (±0.3%)
Making-do / Comfortable	0.7% (±0.7%)	2.1% (±0.5%)	0.5% (±0.5%)
Hard-pressed	0.6% (±0.8%)	3.2% (±0.5%)	0.7% (±0.6%)



What impact might this have on projections?







Consequence of reflecting slow-down in lower SEGs / older ages

Consequence of reflecting resilience of Comfortable group

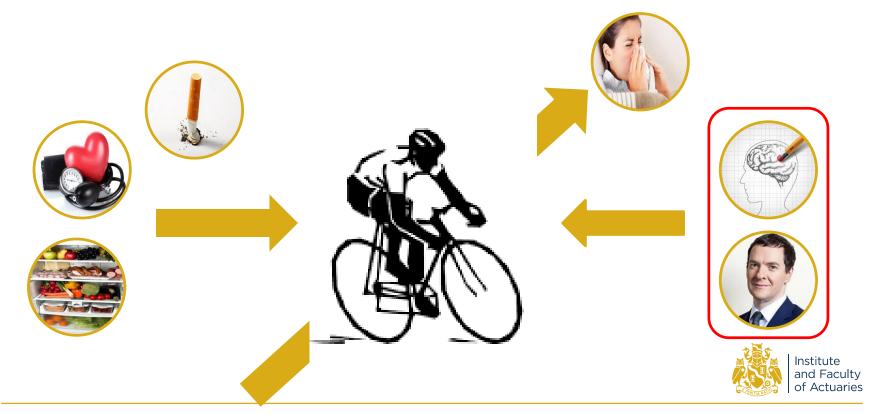




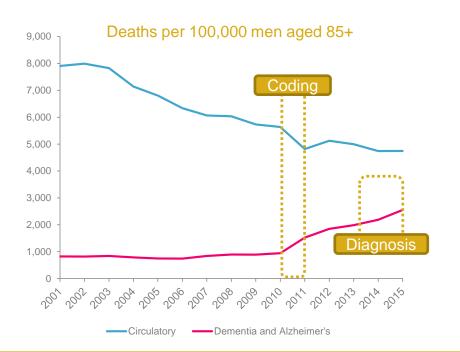


What do we understand about recent trends?

Tail winds, head winds and side winds...



Rise in Dementia & Alzheimer's



Social care budgets?



Possible for SECs to respond differently?



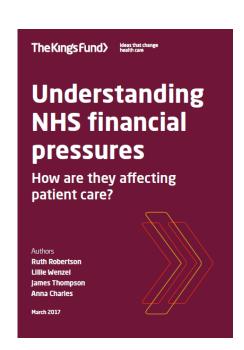
The austerity dimension





fare expenditure of £16.7 billion, about 7% less than would be expected prior to these reforms.3 The coincidence of rising mortality and budget cuts has led several commentators to speculate that these might be a causal relationship.

Healthcare professionals are in the front line when it comes to dealing with the health consequences of some of these policies. A survey published in the BMJ in 2013 found that, among over 1000 GPs surveyed. 68% indicated that they had seen evidence of their patients' health being affected by reductions to their benefits, and 94% said their workload had increased to some degree due to increasing financial hardship among their patients.4 Rising claims for homelessness assistance have been linked to reduced spending on housing services and welfare support.5 Food bank use has been highest in areas facing largest cuts to benefit spending and where most claimants have had their benefit payments stopped for failing to meet certain conditions⁶ Fit-for-work tests have coincided with rising suicides, prescriptions for anti-depressants and declining mental health. In turn, there have been calls for medical professionals to be involved





Do the additional resources of the 'Comfortable' buffer them?

but not after adjusting for Persion Gredit spending. Similar patterns were seen in both men and women. Weeker asso-

cistions observed for those aged 75 to 84 years, and none among those 65 to 74 years. Categories of service expend-

portation, showed no association. Conclusions: Rising mortality rates among pensioners aged

85 years and over were linked to reductions in spending on

income support for poor persioners and social care.

The long-term decline in mortality among those aged

85 years and over in England has reversed, since 2010

among men and 2011 among women (Figure 1).1 By

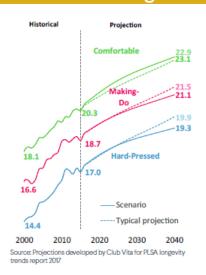
Introduction

(C) The Boral Society of Medicine 2016



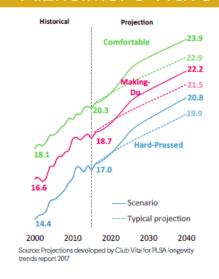
Some alternative views of the future

Low for longer



31/2%-5% reduction

Alzheimer's Wave



Health Cascade



trends report 2017

0%-1% reduction

11/2%-21/2% increase

Graphs show projections of life expectancy from age 65. Typical projection CMI 2015 1.5% long term rate Percentages change in present values vs CMI 2015, 1.5% long term rate. Based on 4 illustrative schemes. See "Longevity Trends: Does one size fit all?", PLSA 2017.for additional information

institute and Faculty of Actuaries

Want to read more?



Does one size fit all?



The data underpinning the research



This presentation draws heavily upon "Longevity Tends: Does one size fit all?" published by the PLSA in collaboration with Club Vita.

The report is available for download from:

https://www.clubvita.co.uk/Documents/Longevitymodel-Jun-17.pdf

The report also considers the impact of a number of other deterministic scenarios for the future on some illustrative pension schemes, along with providing more detailed insights into the characteristics of each of the VitaSegments.



Questions

Comments

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