



Club Vita's research

- Club Vita is a longevity comparison club
 - pools data from over 100 occupational pension schemes
 - provides statistical analysis on predictors of and trends in longevity
 - allows schemes to use full member information in setting assumptions
- · Very rich dataset
 - full member information covering over 5 million member records, including over 1.5 million pensioner records
 - More than 15 years of history
- · Why is longevity important?
 - rapidly changing
 - gives rise to uncertainty
 - unmanaged risk
 - unrewarded risk...perhaps????

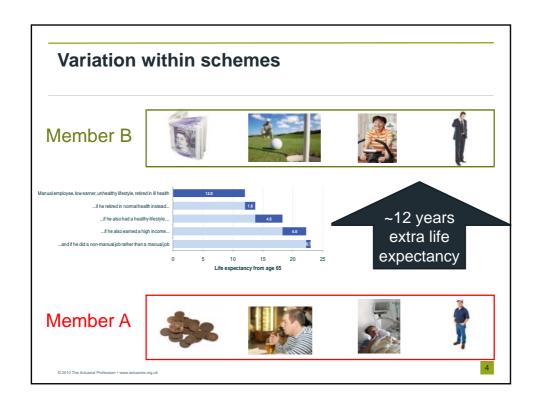


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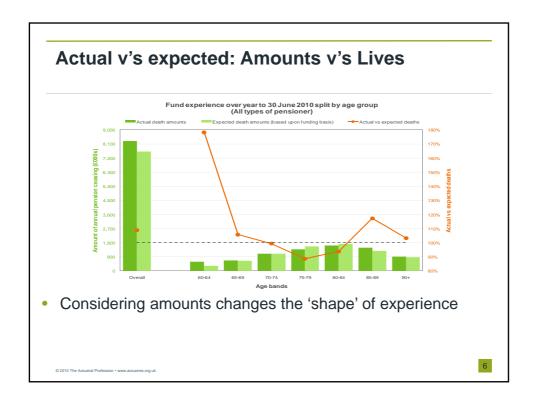
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Monitoring longevity

- Baseline understand the current drivers of longevity in pension schemes
- Experience unique experience of each pension scheme, looking out for influential members
- Improvements do emerging trends/medical advances etc change our views of the future?
- Regular review means no surprises for schemes

The other demographic assumptions...

The assumptions

- Early/late retirement
- Commutation
- Deaths and dependants
- The age gap...

Information sources

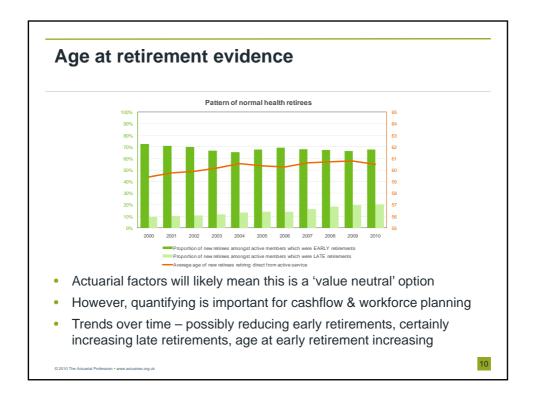
- Scheme's own data
- Other sources:
 - often not pension scheme experience
 - wrong peer group
 - insufficient detail
 - reporting bias
 - assumptions made

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Retirement age trends

- Scheme experience
- Age discrimination and benefit design changes
- Change in the State Pension Age
- B&Q place value on 'experienced workers'





Age at retirement - implications

Business issues

- Retirement age is no longer a workforce management tool
- Dealing with stagnating and de-motivated employees

Actuarial issues

- Funding neutral in value (if review factors often)
- Impact on cashflow modelling (LDI, de-risking etc)

Retirement health trends

- Scheme experience will be industry and rules/benefits specific
- Possible trends due to appreciation that there is an associated cost
- Increased use of phi/management of ill-health will affect likelihood of retirement

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Proportions retiring from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retirees from active status on grounds of ill health Average age of retires from active status on grounds of ill health Average age of retires from active status on grounds of ill health Average age of retires from active status on grounds of ill health Average age of retires from active status on grounds of ill health Average age of retires from active status on grounds

Retirement health - implications

- Cannot be too sweeping in conclusions scheme specific factors are important
- Trend to better health and/or better health management is clear though
- De-risking opportunity
 – possibility of good value from impaired life annuities
 – but consider remaining membership

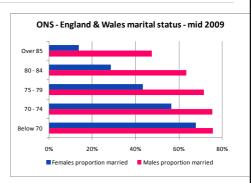
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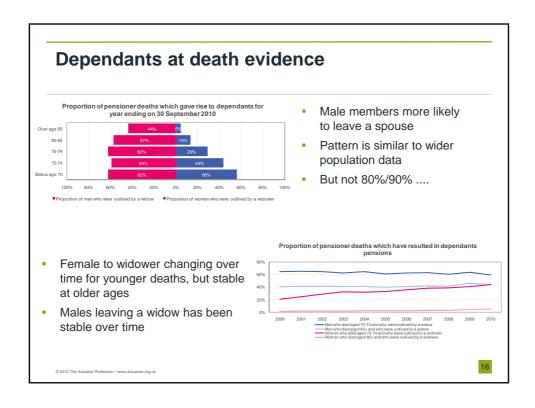
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Till death do us part...

- Changes in definition of a dependant
- ONS Marrriage stats
- The undivorced...







Implications for schemes

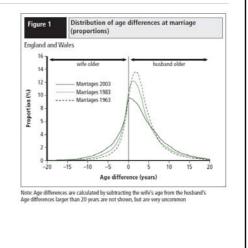
- Governance unravelling complex dependant relationships
 - including re-marriage and multiple wives.
- What about scheme experience...
- Funding, cashflows and derisking



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Age difference at death - trends

- Where did +/- 3 years come from?
- ONS information & trends
 - 'same age' marriage more common
 - impact of re-marriages



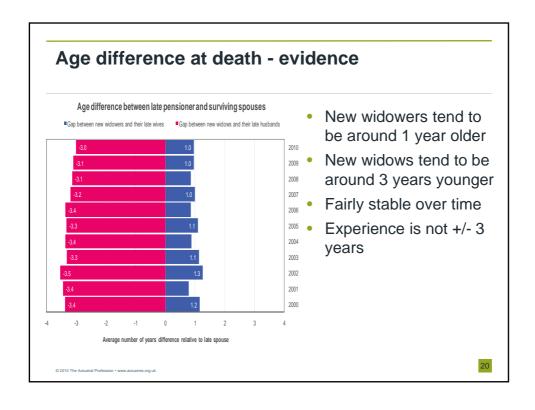
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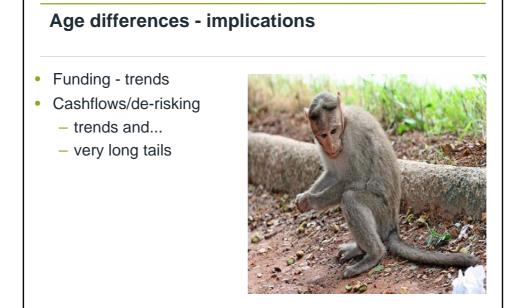
Largest known age difference....????

The largest known age difference is ...

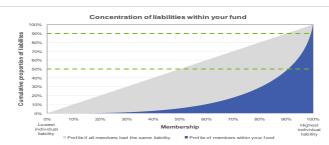


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All members are equal...



- 50% of liabilities held by c10% of the members
- · Assumptions for this group are important
- But should they be the same as those for the rest of the membership?

...but some are just a bit more equal

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Why is it all important?

- Best estimate valuations eliminate unnecessary guesstimates in funding decisions
- Accurate assessment and 'targeting' of the value of member options
- Better informed to take advantage of de-risking opportunities (and not risk being taken advantage of by providers 'profiting' on prudent assumptions)

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Thank you • Any Questions?
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