

Flexible insurance for informal long-term care: A study of stated demand

Professor Hazel Bateman
CEPAR & School of Risk & Actuarial Studies, UNSW Sydney
September 2021













Flexible insurance for informal long-term care: A study of stated demand

- 1. Background
- 2. Explore stated preferences for a 'flexible' LTC (aged-care) insurance product which pays disability-contingent income
- 3. Discussion



Background: Stylized Facts

- People are reluctant to draw down retirement savings and other household assets (including housing) to finance retirement, prefer to self-insure aged care costs
- → compromises financial wellbeing in retirement
- Preference for ageing in place and informal care
 - -ABS. Survey of Disability, Ageing & Carers (2018) \rightarrow Australia: 400,000 primary 'informal' carers of the elderly (10% of > 65 population); mostly spouses, daughters
- → compromises labour market participation & retirement savings of carers
- No private aged care (long-term care) insurance in Australia → yet it could enhance the financing and sustainability of aged care

A study of stated spending trajectories -> evidence of a strong motivation to continue to save/draw down slowly in retirement

Saving/spending motive	
1. Self gratification	Enjoy life now as well as later
2. Future health, aged care expenses	Finance unforeseen health, aged care expenses
3. Autonomy	Remain financially independent
4. Security	Peace of mind
5. Surviving spouse/partner	Enable spouse/partner to maintain living standard
6. Other unforeseen expenses	Finance other unforeseen expenses
7. Liquidity	Enough cash on hand at any time
8. Life span risk	Not outlive wealth
9. Political risk	Protection against change in Age Pension/super rules
10. (Intended) bequest	Leave a bequest to a dependent or estate

Alonso Garcia et al. (2018), Saving Preferences after Retirement, CEPAR Working Paper 2018/18

A long-term (aged) care insurance income product could be a solution

- Single premium at purchase (e.g. using super, housing assets including Pension Loans Scheme); disability trigger for payments → eg 2 ADLs, cognitively impaired
- Pays regular income in period of need (whether care is paid for or not) → can be used to pay for formal OR informal care (discretion how to spend, including to reimburse informal carers)
- Potential to bundle with life annuities (life care annuity) → enhance risk pooling
- Lifecycle models show access to long-term care (LTC) income insurance welfare improving → Australia (Wu et al, 2016); China (Wan et al, 2021)
- An emerging product in the US: annuity with LTC rider 80% new sales of LTC insurance (American Association for LTC Insurance, 2019)

We explored the stated demand for a long-term care (LTC) insurance income product using an online experimental survey

- Key questions:
 - **√** What is the stated demand? who would buy the product? and how much?
 - ✓ Would access to this LTC insurance release precautionary savings for purchase of longevity insurance (annuities)? and for whom?
- Representative sample of 1,000 Australians aged 55-64, completed a sequence of online experimental tasks of retirement benefit choices to determine most preferred allocation of retirement savings to: lifetime annuity, aged care income insurance, account-based pension
- Collected personal information: demographics, (objective/subjective) measures of exposure to risk, substitutes to aged-care insurance, preferences (risk, time, bequests), product knowledge & financial capability, self-assessed need for home/residential care, availability of low-level/high-level informal care.

Wu et al. (2021), Flexible insurance for informal long-term care: A study of stated choice, CEPAR Working Paper 2021/17.

To enhance the effectiveness of online experimental design

 Informed participants of aged care risks & costs and incentivised participants to learn about the retirement insurance products

Aged-care expenses

The chance of needing aged care varies from person to person, depending on your health and medical history. However, three out of every five of us will need some form of care during our lives, mostly at older ages.

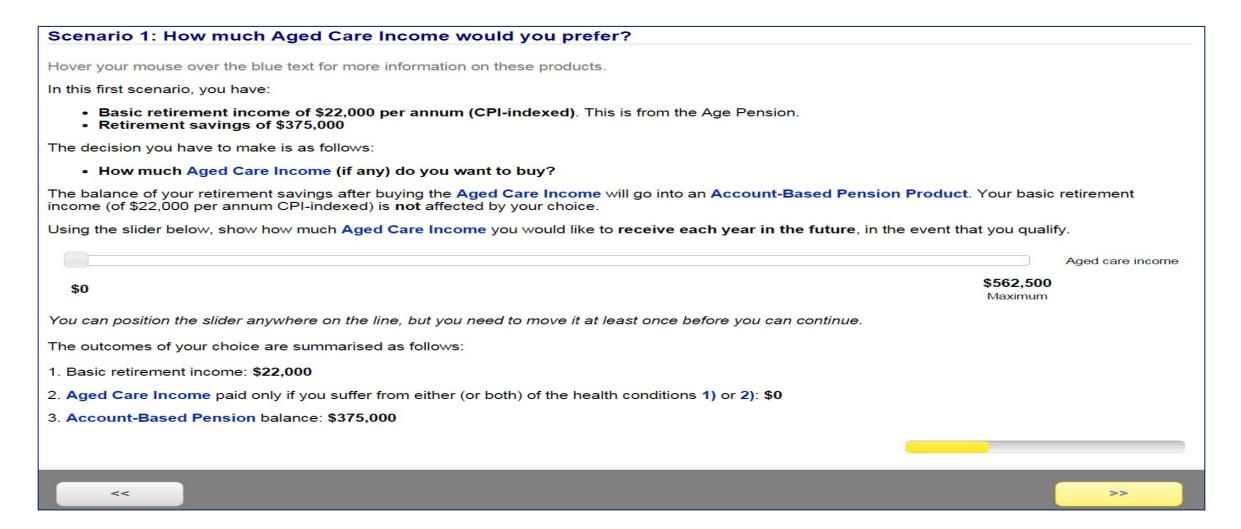


Women are more likely to need care than men.

People's needs for assistance can range from help with checking blood pressure, managing medicines, or daily activities like bathing and dressing. Costs can run from less than \$1,000 a year for basic home support, to around \$65,000 a year for residential aged care.

Only 5% of participants found the survey 'mostly/completely confusing'

Simplified the 3-product allocation using a sequence of choice tasks: How much aged care income insurance would you prefer (at different levels of annuitisation), then most preferred



Results

Summary statistics indicate high stated demand for long-term care income insurance

- Around 75% of sample chose to purchase some long-term care income insurance
- Median income chosen (when require LTC) was \$45K pa

- 70% of sample reported access to low-level informal care & 50% to high-level care
- 50% prefer to receive some or all high-level care from informal sources

Regression models to estimate 1) probability of purchase of long-term care income, and 2) amount purchased

Objective measures of exposure to LTC risk mostly **not significantly** associated with either probability of purchase or amount

Dep. variable		Pr. Purchase LTC income			Log amount LTC income			
		Sample	Males	Females	Sample	Males	Females	
Female		-	-	-	-0.448**	-	-	
Age		-	-	-	-	-	-	
Health state (1)								
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
	4	-	-	-	-	-	+0.337***	
Current smoker		-	-	-	-0.315***	-	-0.494**	
Received care		-	-	-	-	-	0.420**	

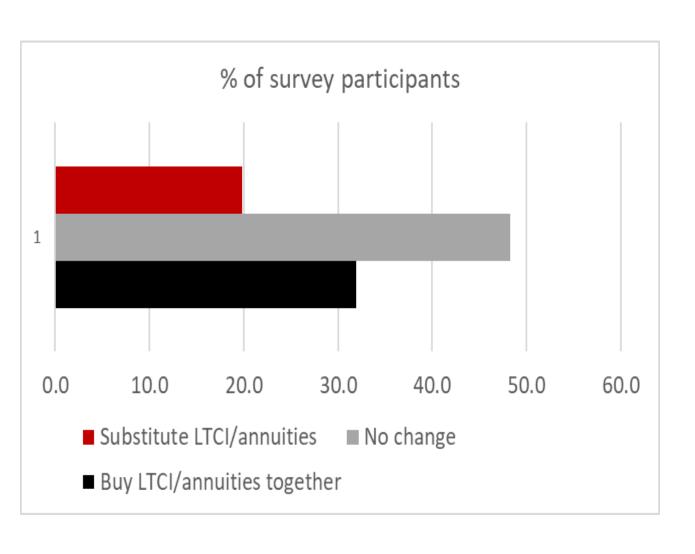
Association between subjective measures of exposure to LTC risk association and probability of purchase or amount is **mixed**

Dep. variable	Pr. Purchase LTC income			Log amount LTC income		
	Sample	Males	Females	Sample	Males	Females
Subj Life Expectancy	-	-0.035*	-	-	0.011*	-
Chance needing home	e care					
Lower than average	0.512*	-	-	-	-	-
Higher than average	-	-	-	-0.339**	-	-
Chance needing resid	lential care					
Lower than average	-0.875***	-1.048**	-0.851*	-	-	-
Higher than average	5.527***	+00***	3.691**	0.591***	0.712**	-
Awareness of LTC risk						
Set aside money	-	-	-	0.327***	0.452***	-0.282**

Strong stated demand from those who have access to and preference for informal care: Males & females who have access to high-level informal care demand 25-37% more aged care income than those who do not

Dep. variable	Pr. Purchase LTC income			Log amount LTC income		
	Sample	Males	Females	Sample	Males	Females
Availability of (low le						
Informal care only	-	-	-	-	-0.302**	-
Informal care + other sources	-	-	-0.847*	-0.188*	-	-
Availability of (high level) informal care						
Informal care only	0.887***	1.331***	-	0.284***	0.252*	0.373**
Informal care + other sources	-	-	-	0.227**	-	0.364**
No. children	-	-	-	-	-	0.108***
Chance \$100K bequest	-	-	-0.001**	-	-	-0.003**

Would access to aged care income insurance release precautionary savings for purchase of annuities, and for whom? Yes, for some



- For a large minority (32%), aged care income insurance and annuities are complements ⇒ access to aged care/LTC insurance release precautionary savings
- Regression analysis finds complementarity more likely for participants with low perceived aged care risk
- Access to aged care income insurance increases annuity demand by healthy
 → bundling aged care insurance & annuities improves risk pooling (Brown & Warshawsky, 2013; Sherris & Wei, 2021)

Discussion: Multiple benefits of LTC income insurance

- Strong stated demand for LTC income insurance from people who prefer informal care and want to compensate carers, particularly females
- Access to LTC income insurance allows release of precautionary savings set aside for future care costs (to purchase longevity insurance), particularly for those with low perceived LTC risk
- Larger potential market than expense-reimbursement products offered overseas as includes those who prefer and have access to informal care
- Potential private insurance product to support sustainable aged-care financing

Discussion: Practical implications

- Long-term care income insurance only partially covers costs → suitable in combination with public financing
- Behavioural barriers to drawdown of assets at retirement (super, housing, financial assets) to fund purchase price
- Barriers to take-up of unfamiliar products
 - Lack of awareness and product understanding, product distribution
- Seniors may need to be encouraged to spend income payments
- Efficacy of providing income to people with cognitive limitations

Thank you



References

ABS Survey of Disability, Ageing & Carers (2018).

Alonso Garcia, Bateman, Bonekamp, Stevens & van Soest (2018). Saving Preferences after Retirement, CEPAR Working Paper 2018/18

American Association for Long Term Care Insurance (2019). Long term Care Insurance Facts – 2019 Report.

Brown & Warshawsky (2013). The life care annuity: A new empirical examination of an insurance innovation that addresses problems in the markets for life annuities and long term care insurance. Journal of Risk & Insurance. 80(3): 677-704.

Wan, Bateman, Fang & Hanewald. (2021). The demand for longevity, health and long-term care insurance in the COVID-19 pandemic, Working Paper in progress.

Wu, Bateman & Stevens (2016). Optimal portfolio insurance with health-contingent income products: The value of life care annuities, CEPAR Working Paper 2016/17.

Wu, Bateman, Stevens & Thorp (2021). Flexible insurance for informal long-term care: A study of stated choice, CEPAR Working Paper 2021/17