



What's to follow:

- Evidence that financial literacy falls in later years.
- Older people heavily discount the future, leading them to undersave and overspend.
- Little understanding of chances of living a very long time.
- In retrospect, many regret the financial decisions made when younger.
- Introducing deferred annuities can help with many of these problems.
- Tools: experiments, life cycle models, and policy simulations.











To investigate impatience in the older population & link to observed behavior:

- HRS experimental survey age 70+;
- Correlate impatience with other SES information on respondents;
- Link economic & health behavior with time discounting.



Module Q's:



9

Suppose you were given the choice between receiving a payment today or a payment in 12 months. We will now present to you 5 situations. The payment today is the same in each of these situations. The payment in 12 months differs in every situation. For each of these situations, we would like to know which you would choose.

Would you rather receive \$100 today or \$154 in 12 months?

1) Today → go to [step up] →\$100 today or \$185 in 12 mos ... and so forth

2) In12 mos \rightarrow *go to [step down]* \rightarrow \$100 today or \$125 in 12 mos ... and so forth







Heterogeneity

- +15 years of age 70-85 associated w/ a standard deviation higher IRR.
- Whites & more educated more patient: lower IRRs (-0.9 and -0.01)
- Serious health problems & demented less patient (much higher IRRs).
- *Not significant:* sex, marital, optimistic life expectancy, risk aversion, procrastinator, income, religion, Nkids











Baseline vignettes: Annuitization

Next we will describe a financial decision facing Mr. Smith and then we will ask you ask what you would recommend to this person: Mr. Smith is a single, 60-year-old man with no children. He will retire and claim his Social Security benefits at 65. When he retires, he will have \$100,000 saved for his retirement, and he will receive \$1,400 in monthly Social Security benefits. Imagine that Mr. Smith asks you about how to manage his \$100,000 retirement savings. Please indicate which of the two options you would recommend:

- 1. Withdraw the entire \$100,000 all at once from the retirement account, to use as he needs.
- 2. Receive a regular monthly sum of \$500 (equal to \$6,000 yearly) for the rest of his life.

Information treatments:

Please note that American men, 65 years old, will survive 18.1 more years on average.

OR

Please note that 22.3% of American men, 65 years old, will survive to the age of 90 or more.









Regret re financial decisions:

- Think about your saving over your life: do you think that what you saved was too little, about right, or too much?
- If you could do it all over again, do you think you would save more for retirement to avoid depending on others?
- If you could do it all over again, do you think you would have *worked longer, stopped at about the same age, or stopped working sooner?*

Regret re insurance protection:

- If you could do it all over again, do you think you would have *delayed claiming Social Security until later, in exchange for higher benefit payments?*
- Do you currently have Long Term Care insurance? (for nursing home care). If no → If you could do it all over again, would you purchase more Long Term Care Insurance?
- If you could do it all over again, do you think you would have *purchased a lifetime payment from an insurance provider?* 25

Results:	
Undersaving regret Fin. dependence regret	0.52 0.09
Quit work too soon regret	0.34
>half regretted saving <u>too little;</u> only 1.5% regretted <u>too</u> <u>much</u> 1/3 quit <u>too soon;</u> 6% regretted working <u>too long</u>	



- Also increased regret re early social security claiming, and undersaving.
- Helps understand why giving people longevity information gets them to alter financial decisions.
- Women much more likely to regret no LTC, no annuities, and being financially dependent.
- Blacks more likely to regret all financial decisions (except depending on others).

27

<section-header><list-item><list-item><list-item><list-item><list-item><list-item>













Takeaways:

- Set aside ~10% of plan balances @65 for default fixed DIA paying from age 85.
- From age 66, welfare gains ~ 6-14% of retirement accruals.
- If US employers defaulted workers into DIAs at 10% for >\$65K, results similar to optimal annuitization.
- When mortality differs by education, welfare gains smaller for less educated but still positive.
- Variable DIAs even more attractive.
- Payout defaults important for real-world consumers: US; Pan-European Pension Accounts (PEPP); Australia?

36

Conclusions:

- We're making headway tackling the "nastiest problem in finance:" *striking a balance between having enough income to meet current needs and having enough to get through the lifetime.*
- Many useful tools: experiments, life cycle models, and policy simulations yield useful insights.
- Next steps?
 - Healthcare costs in later life & aged care
 - ✓ Guarantees & other insurance products
 - ✓ Cognitive aging





