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Reorienting Retirement Risk Management

Discussion of Session I:

Revisiting Retirement Savings and Dissaving Advice

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Hammond and Richardson

“A New Look at Retirement Savings and Adequacy: Individual Risk Management and the Asset Salary Ratio”

Part 1 – Analysis of Asset\Salary Ratio (ASR)

- **Age**

- ASR increases with age

- **Gender**

- Male ASR > Female ASR for population older than 54

- **Tenure**

- ASR increases with tenure
- Male ASR > Female ASR for population with tenure > 29

- **Salary**

- ASR increases modestly with salary

- **Contributions**

- ASR increases with total contribution level (% of salary)

Part 1 – Thoughts / Suggestions

- **Gender ASR result interesting**

- Univariate → large gender gap in ASR
- Multivariate → small gender gap in ASR
- Multivariate accounts for contributions, tenure, etc.
- Results consistent with idea that gender may impact contributions and participation, but not results given that data.
- Authors suggest data consistent with work stoppages for women.
- Household decision making hypothesis: Female employed population higher incidence of dual earner households?

- **Lower ASRs + Older Age → High contributions**

- Suggestive of lifecycle hypothesis?

Part 2 – Analysis of Target ASR (TASR)

- **TASR requires A LOT of assumptions**
- **Determine income needed at retirement**
 - When is retirement? (65?)
 - What is income at retirement?
 - What is target replacement ratio? (50%?)
- **Determine wealth needed at retirement**
 - How is wealth translated into income? (Single life annuity)
- **Determine wealth needed currently**
 - Contributions between now and retirement? (fixed % of salary?)
 - Investment returns between now and retirement? (fixed? declining?)

Part 2 – Results / Thoughts / Suggestions

- **TASR at odds with Lifecycle Savings Hypothesis?**

- TASR benchmark assumes fixed contribution rates
- Lifecycle hypothesis suggests low or no saving when young (earnings < lifetime average consumption). Savings levels increase as a % of salary as income increases.
- Lifecycle savers would tend to track below TASR benchmark

- **Data supportive of Lifecycle Hypothesis (LCH)**

- “Most significant difference is that the *Age* coefficient is negative”
- Older individuals tendency to “catch up”
- Data affirming or rejecting LCH is an important contribution
- LCH analysis: What is TASR given LCH? How are people doing?

- **ASRs have declined, how are people responding?**

Rappaport and Turner

“How Does Retirement Planning Software Handle Post-Retirement Realities?”

Summary

- **There are a lot of risks in retirement**
 - Longevity / Inflation / Health & Long-term care costs
- **Individuals may not fully understand risks**
 - Longevity: family history and current health vs. variability
 - Inflation: tendency to have short-term focus and ignore inflation
 - Long-term care: few purchased long-term care insurance
- **Current Retirement Software is inadequate**
 - Ignores or inadequately incorporates housing wealth
 - Typically silent on biggest decision for many people: when to start taking Social Security
 - Risks are ignored or masked: investment returns, longevity, inflation, medical expenses are deterministic not stochastic
 - Projections and recommendations vary wildly based on differing assumptions and data

Why is Post-Retirement Software So Poor?

- **Post-retirement situation is very complex and highly individual specific (difficult to address with software)**
- **“These programs are merely tools to help facilitate the retirement planning process and there is no accepted right answer.” (emphasis added)**

Accumulation vs. Post Retirement Complexity

- **Accumulation assumptions**

- When is retirement? (65?)
- What is income at retirement?
- What is target replacement ratio? (50%?)
- How is wealth translated into income? (Single life annuity)
- Contributions between now and retirement? (fixed % of salary?)
- Investment returns between now and retirement? (fixed? declining?)

Accumulation vs. Post Retirement Complexity

- **Planning horizon**

- When is retirement? (65?)

- **Wealth objective**

- What is income at retirement?
- What is target replacement ratio? (50%?)
- How is wealth translated into income? (Single life annuity)

- **Inflows / outflows**

- Contributions between now and retirement? (fixed % of salary?)

- **Investment returns**

- Investment returns between now and retirement? (fixed? declining?)

Accumulation vs. Post Retirement Complexity

- **Planning horizon**

- Accumulation: deterministic is plausible -- age 65
- Post retirement: longevity must be stochastic

- **Wealth objective**

- Accumulation: target wealth at end of horizon
- Post retirement: spending occurs each year of retirement

- **Inflows / outflows**

- Accumulation: inflows (contributions) assumed deterministic
- Post retirement: outflows (spending) stochastic

- **Investment returns**

- Accumulation / Post retirement comparable difficulty

Additional Post Retirement Complexity

- **The plan covers how many people?**
- **What spending pattern is appropriate?**
 - Flat?
 - Front loaded? (active / low longevity / entitlement optimization)
 - Back loaded? (increased medical needs)
 - Distortions from other income sources (Social Security does not start for 5 years, plan on working part time for 3 years, etc.)
- **What type of inflation protection?**
 - None: fixed mortgage / expenses mostly nominal
 - CPI: variable mortgage / expenses likely tied to CPI
 - Medical: individual consumption basket more medical focused.
- **Tax consequences**
 - Often ignored in accumulation
 - Sources of retirement income vary widely on taxation implications

Post Retirement Complexity

- **Entitlement Optimization**

- Social Security: what age to begin?
- Medicaid: front load consumption?

- **What about annuities? – New investment option**

- Typically lowers cost of lifetime income
- Can also lower cost of lifetime consumption (reverse mortgage, etc)

- **Behavioral factors in decision making?**

- 40+ years since advantage of annuities identified. Still few takers.

- **Cognitive risks**

- “I can make good decisions now, but I can’t have a plan that requires good decision making after age 80”

Summary / Conclusion

- **Post retirement problem very complex**
- **No current consensus on “accepted right answer”**
- **Major effort needed to identify**
 - Top priority post retirement considerations
 - Accepted right answers
- **Many software solutions likely to be ad-hoc and low quality until progress is made**
- **Accumulation inherits post retirement complexity!**