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Saving and Spending Retirement Wealth

Olivia S. Mitchell*

I am keenly interested in the mechanisms by which people accumulate and decumulate retirement wealth, as well as the factors that shape this process. The subject is of considerable international concern in light of looming Social Security shortfalls in most developed nations, and the global shift from defined benefit to defined contribution pension systems. Future retirees clearly must bear a larger responsibility for ensuring their well being in retirement, yet there is reason to believe that existing retirement institutions do not always function efficiently and equitably. Accordingly, much of my work examines the form and function of public and private institutions that support saving for retirement and wealth decumulation after retirement. I also examine the regulatory environment for public and private pension institutions.

Building Retirement Wealth

My research on retirement wealth exploits a variety of detailed microeconomic datasets to examine accruals of pension wealth. For example, the Health and Retirement Study is an invaluable survey that links respondent answers to administrative data on life.
time earnings, Social Security benefits, and company-provided pensions. Using these data, I show that the median U.S. household on the verge of retirement anticipates total retirement assets of around $475,000, with Social Security benefits representing one-third of this sum, private pensions close to $125,000, and housing and other financial wealth amounting to about $87,000 each (in 2001 dollars). Households headed by unmarried persons are substantially worse off than their married counterparts: retirement wealth among the poorest quintile of married couples is equal to the wealth held by unmarried people in the middle of the wealth distribution. I also find that these sums are inadequate to smooth consumption in retirement if people retire at age 62, implying saving shortfalls of 15 percent of annual income. Delaying retirement helps, since the shortfall is cut in half for retirement at age 65.

Detailed analyses of the interactions between pension rules and employee characteristics show that accruals of pension wealth tend to be extremely discontinuous, particularly in defined benefit plans. Moreover, the peaks and valleys in pension wealth profiles successfully predict retirement flows. Pension rules also produce benefit accruals that are markedly different for women than for men, mainly because of how different lifetime earnings and labor market histories translate into old age benefits. Thus, while three-quarters of older women near retirement today have worked enough to be entitled to Social Security old-age benefits based on their own accounts, it would take substantial extra employment to boost the remaining quarter over the eligibility threshold. Furthermore, one-third of older wives can expect no additional retirement benefit from contributing to Social Security late in life, since their net benefits are negative after taking into account Social Security contributions while employed.

I have also linked administrative records and worker reports of corporate pension provisions to evaluate the real-world environment in which employees make pension saving and retirement decisions. Here I show that workers are often misinformed about their company-sponsored pensions; this myopia is troubling, since workers may save or consume suboptimally, change jobs, and retire earlier than they would have if they were equipped with better pension information. Related research evaluates the factors driving company pension accruals and how, in turn, these spikes in retirement wealth patterns influence corporate outcomes, including a tendency to influence worker turnover and to “buy out” older, more expensive workers.

Annuities and Dissaving in Retirement

Even if people accumulate adequate retirement wealth, there remains the problem of how to draw it down sensibly over the retirement period. Key concerns at this stage are longevity risk (which may lead to outliving one’s wealth), inflation risk, and investment risk. One line of my research explores the role of the life annuity, an insurance product that pays out a periodic sum for life in exchange for a premium charge. Life annuities offer retirees the opportunity to insure against the risk of outliving their assets by pooling mortality experience across the group of annuity purchasers.

Some of my analysis examines how annuities are priced. This work indicates that the expected present value of payouts associated with single-premium, immediate life annuities is approximately 80 cents per premium dollar if we use mortality rates for the general population. By contrast, the money’s worth of such annuities is much higher for people who actually purchase annuities, since their mortality is lower on average than in the population as a whole. Using annuitant mortality rates, the payouts rise to 90-95 cents per dollar of premium (in expected present discounted value). My evidence also suggests that administrative load charges for annuity products in the United States are low and declining to less than 10 percent of the premium value. Analysis of annuity markets in other countries finds even lower loads, particularly in countries such as Singapore where there is apparently little adverse selection.

This work goes on to evaluate the welfare gains from having retirement wealth payout in annuity form. I conclude that the gains are substantial, particularly those associated with inflation-adjusted annuities. Using plausible measures of risk aversion, I conclude that a variable payout equity-linked annuity could be even more valuable than a real annuity when the additional real returns associated with common stocks more than compensate for the volatility of prospective payouts.

Determinants of Pension Performance

In addition to examining how pensions influence retirement wealth saving and dissaving, I also investigate the factors shaping pension system performance and structure. One research thread explores pension plan efficiency, funding, governance, and performance. The analysis shows that the way pension plans are governed and supervised, as well as their structure, influences key pension outcomes including administrative expenses, funding patterns, and investment performance. A second research thread explores regulatory policy toward retirement saving and dissaving. In one study I show that older Americans receiving annuities pay more taxes once they live beyond their life expectancy, although one could argue that living longer would warrant a lower tax burden. Another study explores the pros and cons of guaranteeing a lifetime benefit from a defined contribution pension program. Several pension systems recently have introduced an option to let participants trade a defined benefit pension at retirement for a lump sum amount, with potential cost consequences for plan participants as well as taxpayers. My ongoing research focuses on the question of how to make retirement systems more resilient, including offering credible guarantees for protecting retirement wealth.
Labor among other sources; see: [citation].

2 In reporting these statistics, we rank HRS households by total wealth rather than just financial wealth. As a result, the data indicate more financial wealth held by the median household than would be found if one ranked households by financial wealth alone.


13 See the recent Final Report of the President's Commission to Strengthen Social Security (www.csss.gov).