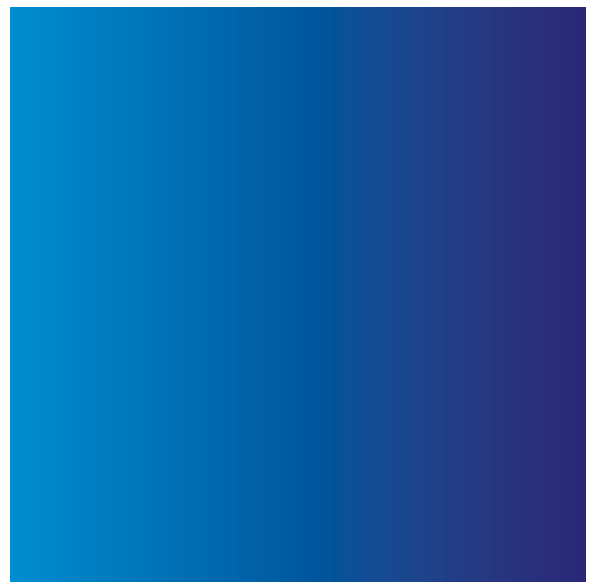




Spending retirement assets...or not?



NOVEMBER 2017

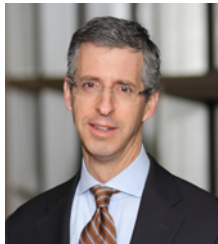
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INTRODUCTION

Who ever thought spending retirement assets would be so difficult?

...today's retirees apparently.

Something unexpected has been the shared experience for our most recent generation of retirees. The vast majority haven't been spending their retirement savings—leaving nest eggs mostly untouched and living on ready sources of income instead. However, future retirees may be less fortunate.



By **Bruce Wolfe, CFA**
Managing Director and
Executive Director of the
BlackRock Retirement Institute



Robert Brazier
Content Developer and
Manager for the BlackRock
Retirement Institute

While on the surface this is indeed good news—and appears to support the argument that fears of a future retirement crisis are overstated, the conditions that supported this spending and savings behavior are unlikely to persist. Future retirees will face a much different retirement landscape and will need to adopt new sets of skills—behavioral and financial—that will help them systematically tap into retirement savings to support future spending.

Financial industry norms and academic theories have always assumed assets accumulated for retirement would be systematically withdrawn—following the “4% rule” or some other rule of thumb or system—by retirees in order to maintain a consistent standard of living. Technically, this is referred to as “consumption smoothing” whereby individuals seek to have consistent spending on par with pre-retirement levels. With concerns that retirement savings for individuals may be dangerously low,¹ the fear has been that withdrawals for such smoothing could leave retirees running out of funds well short of their passing away.

This research conducted by the BlackRock Retirement Institute (BRI) in conjunction with the Employee Benefit Research Institute (EBRI) found that on average across all wealth levels, most current retirees still have 80% of their pre-retirement savings after almost two decades in retirement.

¹ National Institute on Retirement Security, *The Retirement Savings Crisis: Is It Worse Than We Think?* 2013

This is significant because:

- 1 These findings begin to challenge industry norms and academic theories about lifecycle consumption especially during the retirement phase
- 2 Across all wealth levels measured, more than one third of current retirees grew their assets—leaving considerable potential consumption on the table
- 3 Late in life out-of-pocket medical expenses—a major reason to retain assets—do not appear to be warranted except for a very small portion of the population
- 4 The financial landscape for future retirees will most likely be more challenging, requiring different savings and spending behaviors

This paper sets to lay the foundation for *how* retirees have managed their sources of cash—

assets and income—against their spending behaviors. The resulting “husbanding” of assets over the past two decades may be due to a host of favorable environmental factors current retirees benefited from during their working, accumulation years. These included beneficial changes to Social Security and Medicare, a relatively high percentage of jobs that offered defined benefit pensions, strong real estate appreciation and an investment market that generally delivered strong returns and high interest rates. Has the confluence of these factors created a situation whereby retirees may not have felt the pressure to draw down principal from retirement savings in order to maintain a reasonable standard of living? Perhaps retirees had other plans for their assets beyond themselves—bequests or charitable donations come to mind. Possibly they would have preferred to spend more freely but lacked the financial confidence or tools to efficiently decumulate their assets or were worried about end-of-life healthcare expenses? Looking further, perhaps there were strong emotional biases at play—with fear of outliving retirement assets at the top of the list.²

Methodology

The objective of the study was to analyze the “how” and some possible “whys” spending and liquid assets change during retirement, taking into account (non-housing) assets, income, spending, out-of-pocket medical expenses and bequests. Data was collected from the bi-annual Health and Retirement Study (HRS, 1992-2014) and the Consumption and Activities Mail Survey (CAMS, 2005-2015). A sample of 7,148 retiree households provided self-reported asset data and out-of-pocket medical expenditure and a subsample of 1,660 households provided the household expenditure data. Retirees were segmented into three groups based on pre-retirement non-housing retirement assets – \$0 to less than \$200,000 (lowest wealth), \$200,000 to less than \$500,000 (medium wealth) and \$500,000 and above (highest wealth).

² Gallup's Economy and Personal Finance survey, 2016

Retirement assets mostly resilient over time

Looking first at household asset trends through retirement, we measured median non-housing assets right before retirement to a maximum of 17-to-18 years into retirement. Figure 1 illustrates that retirement assets remained remarkably steady across the time period. Yes, the wealthiest group retained the most assets (83%), but the medium and lowest wealth groups also retained a strong percentage of assets over the same period (77% and 80%, respectively).

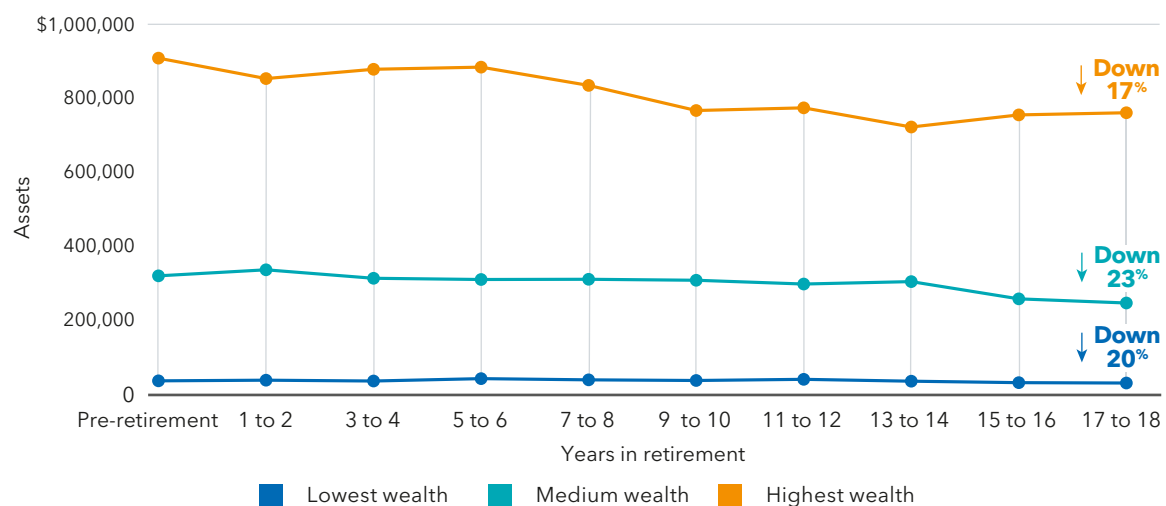
This supports prior research³ that suggests households tend to preserve retirement assets,

with rates of returns on those assets often exceeding withdrawals, resulting in asset balances for many retirees *growing* through at least 85 years old.

However, medians don't mean everyone is not spending down, or adding assets, and Figure 2 provides a fuller picture behind the averages. We separated our three asset level groups further in terms of percentage of assets remaining after 17-to-18 years in retirement—those with less than 20%, 20 to 50%, 50 to 80%, 80 to 100% and more than 100%. Surprisingly, over one third of households across each wealth group had more assets after 17-to-18 years in retirement than initially. At the other end of the spectrum, those who spent down to less than 20% of initial assets was approximately 16% and 12%, for the medium and highest

FIGURE ONE

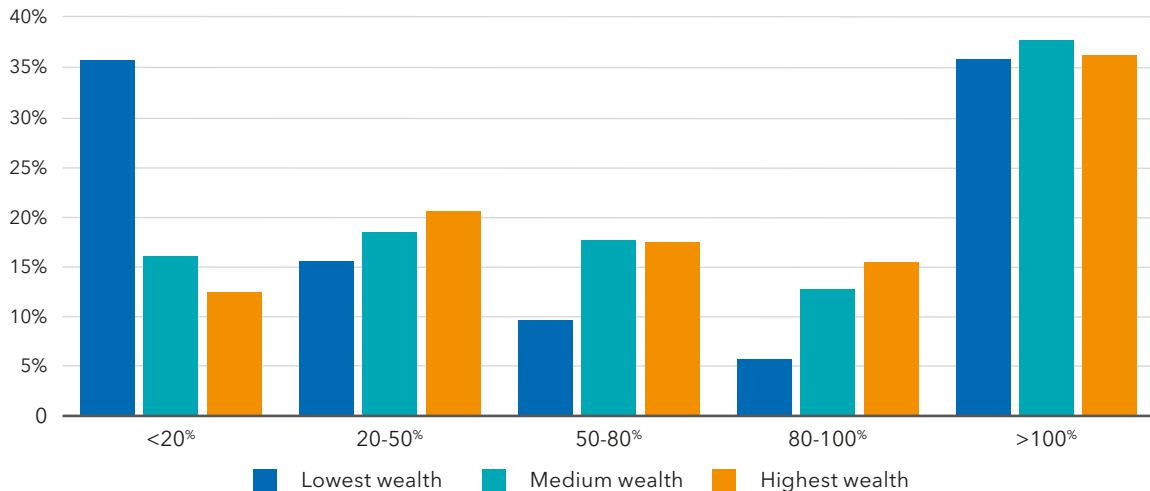
Median non-housing household assets⁴



Source: Employee Benefit Research Institute estimates based on Health & Retirement Study (HRS, 1992-2014) Consumption and Activities Mail Survey (CAMS, 2005-2015)

³ *The drawdown of personal retirement assets: husbanding or squandering?* 2013, Poterba, Venti, Wise, Page 34

⁴ Retirement assets defined as all non-household savings, including IRAs and non-tax advantaged savings and investment accounts. 401K assets are not counted unless they roll over into an IRA account at any point in retirement. Measured in 2015 dollars.

FIGURE TWO**Percent of assets remaining after 17-to-18 years of retirement⁵**

Source: Employee Benefit Research Institute estimates based on Health & Retirement Study (HRS, 1992-2014) Consumption and Activities Mail Survey (CAMS, 2005-2015)

wealth groups, respectively. However, for the lowest wealth group, there was approximately an equal set of retirees with less than 20% of assets as those with over 100% of initial assets. So while most—particularly the two wealthiest segments—are doing well enough to grow or minimally dip into savings principal, a smaller group across the wealth spectrum are spending down. For them, this spending down could represent a steadier drawdown consistent with systematic decumulation of assets. For others this spending down may have been unplanned and ad-hoc after suffering one, or more, financial shocks or unexpected expenses, ranging from a death of a spouse, divorce, home repair, family or medical emergency.⁶

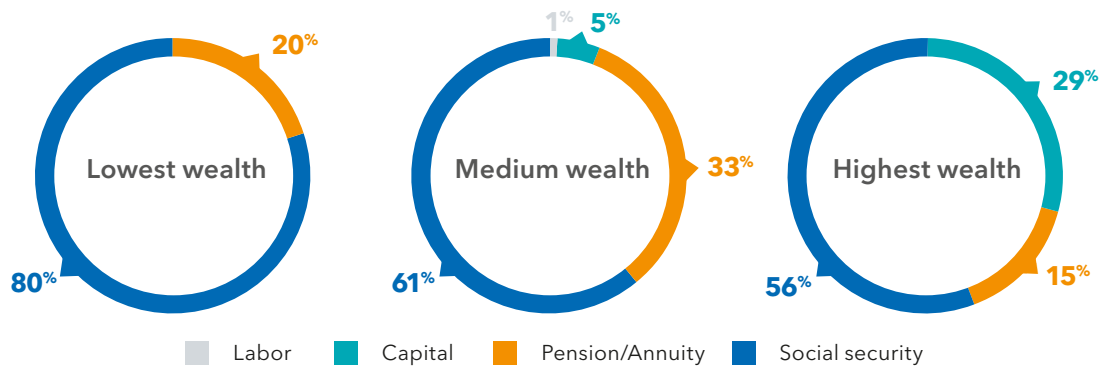
Retirement income: the sources and differences across wealth groups

If most current retirees aren't aggressively drawing down assets, then what are their other main income sources? Outside of retirement savings principal, income in retirement is generally derived from four sources: labor, capital⁷, pensions, and Social Security, as illustrated in Figure 3. For the lowest wealth group, Social Security contributes by far the largest percentage of household income, followed by pensions, with labor and capital contributing a negligible amount.

⁵ As a percentage of initial household retirement assets

⁶ Society of Actuaries, *2015 Risks and Process Retirement Survey*

⁷ Capital income is the sum of household or farm income, self-employment earnings, business income, gross rent, investment dividends and interest income, trust funds or royalties, and other asset income.

FIGURE THREE**Sources of household retirement income**

Source: Employee Benefit Research Institute estimates based on Health & Retirement Study (HRS, 1992-2014)

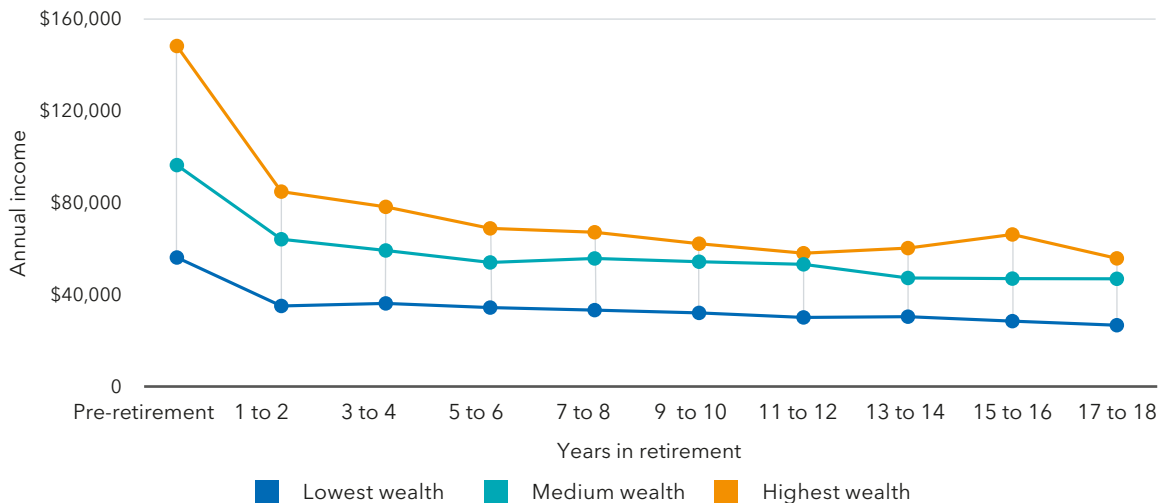
What is not captured here are the various government food and housing subsidies often available to this group. For the medium wealth group, Social Security also contributes the largest percentage (although less so compared to the lowest wealth group), with income from pensions playing a more substantial role (and the largest percentage for the three groups) followed by income thrown off by capital and a very small percentage from labor. For the wealthiest group, Social Security again is the largest contributor with income from capital second (the largest percentage for the three groups) and pension income third. Pensions also provide the opportunity for payouts at retirement in the form of lump sums, a strategy more likely credited to retirees in the higher asset wealth levels (potentially adding to their capital income bucket).

Figure 4 illustrates the gross, total household income over time for the three wealth groups, including the four sources previously

mentioned as well government transfers, alimony, insurance payouts and inheritance. After an expected drop at retirement, income remains mostly steady for the three groups over the course of the 18 years measured. In terms of after tax replacement ratios—net income in retirement divided by net income pre-retirement—estimated ratios for the three wealth groups are slightly lower⁸ but basically in line with the 60 to 70% replacement ratio conventional wisdom states is needed for most people to maintain their standard of living in retirement. Being that our research is based on self-reported data, the replacement rates we observed may actually be higher. Other research⁹ suggests that retirement income is oftentimes underreported in government surveys and actual replacement rates are healthier than widely thought. Taken as a whole, these historical income patterns appear to align with a low need to tap retirement savings principal in order to sustain reasonable spending levels.

⁸ Lowest wealth = 71-53%, Medium wealth = 74-55%, Highest wealth = 65-45%. BRI analysis.

⁹ *Using Panel Tax Data to Examine the Transition to Retirement*, 2016, Brady, Peter, Investment Company Institute; *Do Older Americans Have More Income Than We Think?* 2017, Bee, Adam, U.S. Census Bureau

**FIGURE
FOUR****Median household gross income—just before and during retirement
(Measured in 2015 dollars)**

Source: Employee Benefit Research Institute estimates based on Health & Retirement Study (HRS, 1992-2014) Consumption and Activities Mail Survey (CAMS, 2005-2015)

Most retirees are spending in line with income

Looking at spending and income together, overall spending slowly and steadily declined with income, and the highest wealth group showed the largest spending drop over time (Figure 5). Retirees in the lowest wealth group displayed a more bumpy ride, with an initial increase in spending in years one and two—possibly from health expenses and/or an earlier than expected retirement, and again at years seven and eight—possibly when Required Minimum Distributions (RMDs) kicked in. Other research into changes in household spending during retirement suggest that such steady declines are fairly common,¹⁰ with certain

spending categories such as healthcare often increasing, while others such as transportation and entertainment tending to go down. This slow decrease in spending matched what would be expected with an ageing lifestyle. Most retirees likely didn't require major adjustments nor additional income from retirement assets to meet more modest lifestyle needs.

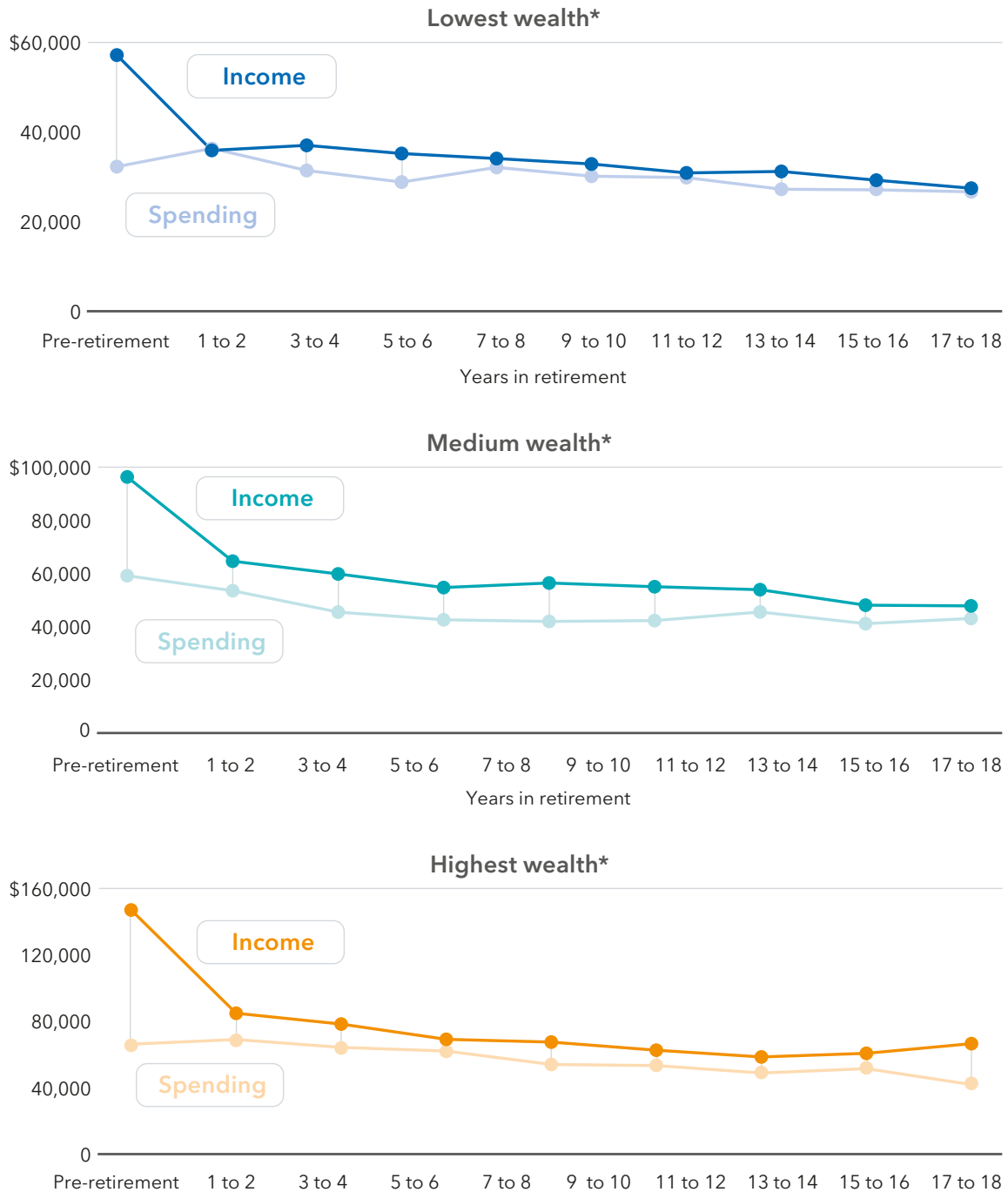
Few retirees ran household budget deficits

For the minority of current retirees whose spending had exceeded income sources, the magnitude of the deficit might shed light on the ability for these retirees to still refrain—or not—from dipping into principal.

¹⁰ *Expenditure patterns of older Americans, 2001-2009*, Banerjee, Sudipto, EBRI

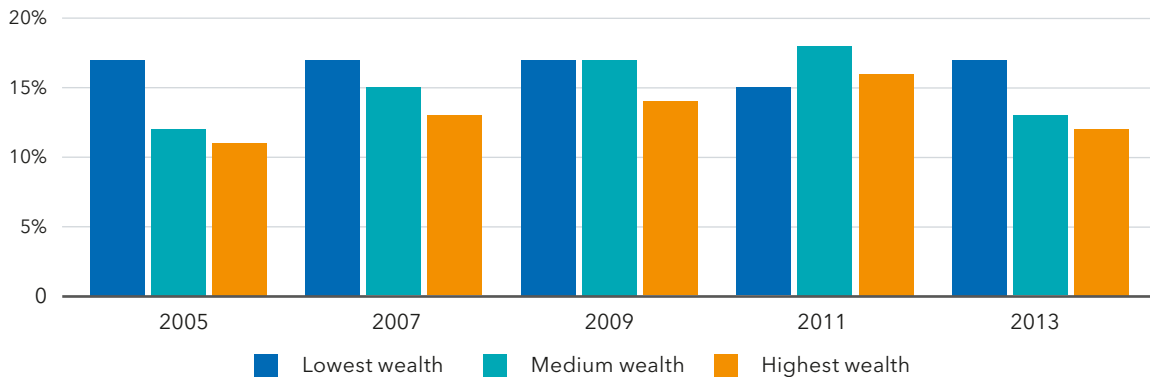
FIGURE FIVE

Median annual pre-tax income and spending¹¹



*Measured in 2015 dollars

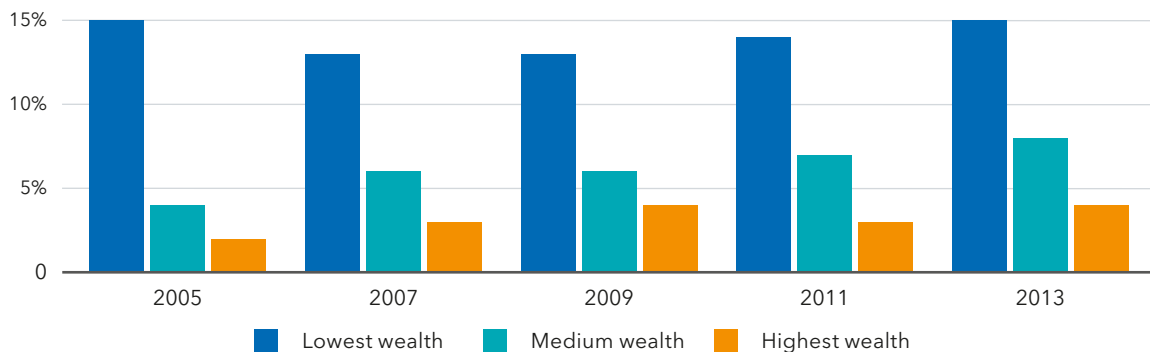
¹¹ Employee Benefit Research Institute estimates based on Health & Retirement Study (HRS, 1992-2014) Consumption and Activities Mail Survey (CAMS, 2005-2015)

FIGURE SIX**Percentage of households over the age of 65 whose spending exceeded income**

Source: Employee Benefit Research Institute estimates from Health and Retirement Study (HRS) and Consumption and Activities Mail Survey (CAMS)

Figure 6 illustrates that the percentage of retirees outspending their income was relatively low, with less than 18% of retirees across the three wealth levels outspending their household income over the time period (This figure also shows a strong uptick in outspending for the two wealthier groups around the time of the 2008 - 2009 financial crisis—most likely due to a drop in capital income). Figure 7 shows that for those who did spend above their income, their

spending gap as a percentage of initial non-housing assets was reasonably low. It should be noted that the lowest wealth group generally receives subsidies, which helps bridge their larger spending gap. One possible relief valve for over-spenders in the highest wealth group and to a lesser degree the medium group could have been drawing appreciated capital from their investment portfolio beyond what we are seeing in the median numbers.

FIGURE SEVEN**Spending gap for households over the age of 65***

Source: Employee Benefit Research Institute estimates from Health and Retirement Study (HRS) and Consumption and Activities Mail Survey (CAMS).

*As a percentage of initial non-housing assets

During the 2005-2013 period, investment returns for a conservative 20% equity-80% fixed income portfolio and a more aggressive 60%-40% portfolio delivered annualized returns of 5.3-6.4% respectively. Looking at the time period for the entire study (1992-2015) similar portfolios delivered annualized returns of 6.6-8.0%, respectively.¹²

Accessing these appreciated assets could meaningfully contribute to any shortfall without reducing principal. Further analysis here is needed, but it's within reason to suggest that even for these "over-spenders," the need to dip into principal to fund a deficit was minimal—if at all.

Why are current retirees spending perhaps less than anticipated?

It would appear that for most retirees, keeping up with the day-to-day expenses of retirement isn't requiring them to dip into retirement capital. While this sounds like good news for those worried that we might already be mired in a retirement crisis, why then aren't retirees loosening the purse strings more on their retirement assets to fund additional discretionary spending? We looked at two common reasons often attributed to holding on to retirement savings.

Concerns about end-of-life care expenditures

One of the greatest financial fears for people in retirement can be the cost of long-term care associated with a major medical procedure, sharply declining health or treatment for cognitive disorders—particularly in the last year or two of life. Looking at Figure 8, our research suggests however, that out-of-pocket medical expenses were quite low for the vast majority of retirees during this period.

FIGURE EIGHT

Out-of-pocket medical expenses in the last 1 to 24 months before death, by age at death¹³

Life span	Median	95th percentile
70-74	\$323	\$25,748
75-79	\$308	\$25,528
80-84	\$308	\$31,829
85-89	\$501	\$55,045
90-94	\$746	\$67,106
95+	\$433	\$85,584

¹² Projected average annualized return. U.S. Equities: Ibbotson Associates S&P U.S. Large Stock TR (USD) and U.S. Bonds: Barclays U.S. Aggregate Bond Index. A 20/80 portfolio has an allocation of 20% to U.S. equities and 80% to U.S. bonds. A 60/40 portfolio has an allocation of 60% to U.S. equities and 40% to U.S. bonds. We assume monthly rebalancing (\$0 transaction cost) to the 20/80 and 60/40 asset allocation weights. For illustrative purposes only. Past performance is no guarantee of future returns. Indexes are unmanaged, and you are not able to invest directly in an index.

¹³ All numbers measured in 2015 dollars (adjusted for medical inflation)

It's not until the 95th percentiles of those surveyed that out-of-pocket expenses jumped to more significant levels. Even then, it could be argued that for someone facing such an acute medical situation late in life, they would unlikely be spending money on much else. For them, most if not all of their income—social security, pensions, investment income—would be diverted to full-time medical care, potentially lessening the need to dip deeply into retirement assets.

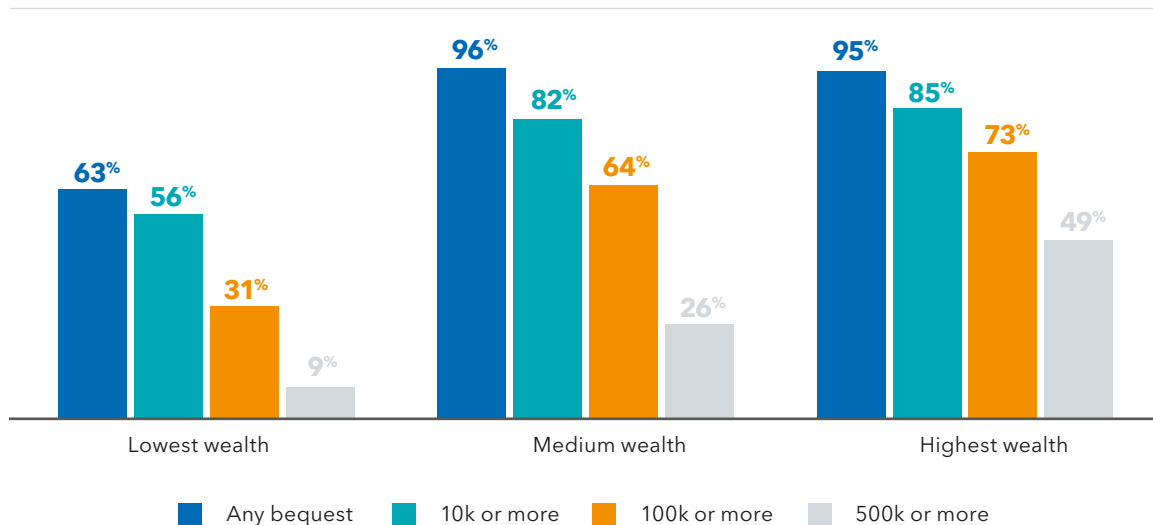
The motivation to leave money behind

Another potential reason why current retirees may not be spending down their retirement

assets is the high percentages of households—across all wealth groups—that appear to be interested in leaving a bequest. However, one study¹⁴ has found that leaving an inheritance (beyond money to support a spouse) is not a strong motive. Only 18% of people age 68-80 with investible assets of at least \$200,000 think leaving a bequest is important to them and 73% state that their bequest will be whatever is left over at time of death. According to Figure 9, which measures the dollar amount of bequests including homes retirees are expecting to leave behind, the “whatever is left” is proving to be a significant amount of retirement assets,¹⁵ particularly among the medium and highest wealth households.

**FIGURE
NINE**

Average self-reported probabilities of leaving inheritance among households above the age of 65



Source: Employee Benefit Research Institute estimates from Health and Retirement Study (HRS)

¹⁴ Greenwald & Associates, Independent research study, 2016

¹⁵ Includes real estate

Looking back: most didn't need to or didn't want to spend savings

Most retirees in our study appear to have coped and managed pretty well in retirement. Many could have afforded to withdraw a little and, in some cases, a lot more from their retirement accounts but chose not to, potentially leaving in some cases large amounts of hard-earned savings unspent.

While many might find this puzzling, research suggests¹⁶ that people would rather not touch their savings and instead adjust their lifestyle, making cutbacks where necessary and shifting to “needs” over “wants.” Others may feel the need to hold on to wealth as a form of self-insurance instead of acquiring an annuity to deal with a number of life’s uncertainties, such as longevity risk. Retirees may also hold back due to deeper behavioral biases or tendencies. After being told to “save, save, save,” for decades, the idea of shifting to “spend, spend, spend” underweights the power of inertia and the comfort associated with the status quo.¹⁷ The common framing of decumulation as a time to withdraw or remove assets rather than say gaining new experiences faces a strong “loss aversion” bias as well.¹⁸ Even the uncertainty or ambiguity regarding longevity itself can lead people to select more certain, but possibly sub-optimal decisions.¹⁹ These biases can be

exacerbated given the person’s risk tolerances, experience (or lack of) with the investment industry and investing and the overall saving/spending relationship (often family influenced). Retirement planning and financial advice that acknowledges and incorporates solutions to these types of biases could help mitigate behaviors getting in the way of retirees spending a bit more on themselves and using those assets saved over decades.

Looking forward: need to spend down retirement assets may only increase

Many of the retirees captured in this research were fortunate to be able to maintain a reasonable standard of living without significantly tapping into their retirement savings principal.

Future retirees may not be so lucky. Many will likely retire into an environment with multiple headwinds and face growing pressure to save more and maximize the value of their entire retirement savings—principal and all—unless they are willing/able to make dramatic cuts in their retirement lifestyle. Several major challenges rise to the surface as we look ahead (Figure 10):

- **Pension benefits**—on average, 42% of the retirees tracked in the research received income from a defined benefit (DB) pension: few, if any, of those retiring over the next 10-20 years can expect income from a DB plan.

¹⁶ *Post-retirement experiences of individuals retired for 15 years or more*, 2016, Society of Actuaries, page 6

¹⁷ Status Quo bias

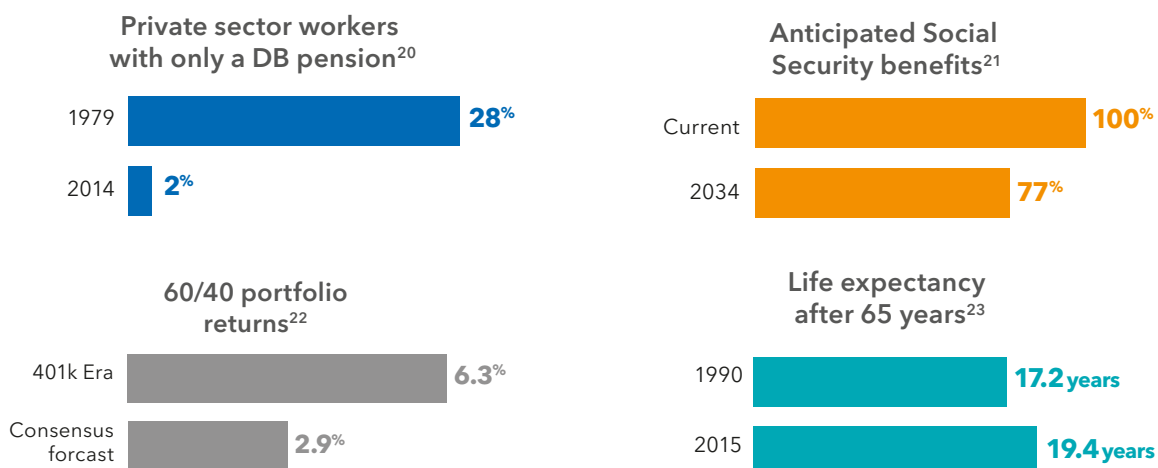
¹⁸ Loss aversion in older people

¹⁹ Ellsberg Paradox

- **Social Security**—income from Social Security is the largest component in the retirement income mix for all retirees, but pressure on Social Security finances could lead to a future drop in benefits.
- **Tax implications**—most retirement assets for those working in the 1970's and 1980's were post-tax, i.e., before tax-qualified vehicles emerged. Most future retirement savings are in tax-qualified vehicles and would need to be tax-adjusted upon distribution, further reducing income.
- **Rates of return**—over the past 35-plus years asset classes have delivered robust returns in the form of asset appreciation and interest income; few asset classes are expected to perform at the same levels into the near future.
- **Savings behavior**—on a more qualitative level, deeply entrenched saving habits can impede retirees from getting comfortable with the notion of depleting their “nest egg.” Future retirees will need to save more and be more confident around drawing down retirement assets—or else be prepared for potentially significant belt tightening.
- **Longer life span**—people are living longer and will need to have their retirement assets last longer, in some cases much longer. Investment portfolios should be re-assessed in light of this longer time horizon, and consider further diversification into less liquid, higher risk premia assets.

FIGURE
TEN

Mounting obstacles to retirement success



²⁰ EBRI, *What are the trends in U.S. retirement plans?*

²¹ *Social Security Administration Report*, 2017

²² 401k era is 8/1/1978 to 7/31/2016; Consensus Forecast is sourced from the 2016 Survey of Capital Market Assumptions, published by Horizon Actuarial Services, LLC.

²³ *CDC Life Expectancy Tables*, 2015

CONCLUSION

Shifting demographics and a more challenging market environment will only elevate the complexity and importance of helping retirees maximize the value of retirement savings. Future retirees will face obstacles not seen by prior generations and many of the apparent behavioral biases possibly holding back current retirees from spending will be at play among future retirees as well. Whether they can gain the confidence to spend retirement assets if and when needed—or not and potentially see major adjustments to their lifestyle instead—remains to be seen.

But the good news is that with improved savings behavior, steady and consistent investing, and sound guidance on retirement income, future retirees can take the steps necessary towards a comfortable standard of living. Such guidance can come from a financial advisor who may need to expand their role as a fiduciary to include prodding systematic withdrawal of assets by their retirees. Defined contribution platforms can also be a familiar source for guidance and deliver products designed for both accumulation and decumulation—helping retirees maintain consistent spending in retirement, while providing a seamless transition from the savings phase. While the intent of this paper was not to further fan the flames of the retirement crisis debate, the research and analysis of this study is a step towards better understanding an important gap in knowledge about the financial behavior of American retirees. Further analysis and study into the underlying motivations behind the numbers could be the next step towards closing that gap.



ABOUT

BlackRock Retirement Institute

The BlackRock Retirement Institute (BRI) is BlackRock's global thought leadership platform on retirement and longevity established to enable our clients and broader community to make better decisions toward a financially secure and dignified retirement.

Lifespans have shot up over the last several decades but the way the world thinks and acts to address this new reality has yet to catch up. We at BlackRock recognize this emerging revolution—its challenges, its opportunities—and through BRI we join our voice with the voices of

other experts to create and amplify some of the best thinking on retirement and longevity.

As the world's largest asset manager²⁴—with two-thirds of the funds we manage related to retirement—BlackRock understands that our firm has a special responsibility to assist people all over the globe to live out their later years with dignity and security. An essential component of that is helping governments, institutions and individuals understand and take action in response to this new phase in mankind's history—that's what BRI is here to do.



The BlackRock Retirement Institute helps to enable our clients and broader communities to make better decisions towards a financially secure and dignified retirement.

²⁴ Based on \$5.97 trillion assets under management as of 9/30/17.

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* AUM as of 9/30/17.

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