United States Senate Committee on Finance
Subcommittee on Social Security, Pensions, and Family Policy

Hearing on:

Retirement Savings for Low-Income Workers

Wednesday, February 26, 2014, 10:00 AM
215 Dirksen Senate Office Building

Statement for the Record

Jack VanDerhei, Ph.D.
Research Director
Employee Benefit Research Institute (EBRI)

The views expressed in this statement are solely those of Jack VanDerhei and should not be attributed to the Employee Benefit Research Institute (EBRI), the EBRI Education and Research Fund, any of its programs, officers, trustees, sponsors, or other staff. The Employee Benefit Research Institute is a nonprofit, nonpartisan, education and research organization established in Washington, DC, in 1978. EBRI does not take policy positions, nor does it lobby, advocate specific policy recommendations, or receive federal funding.
Retirement Savings for Low-Income Workers

By Jack VanDerhei, Ph.D.
Research Director, Employee Benefit Research Institute (EBRI)

1 Introduction

Measuring retirement savings and retirement income adequacy for low-income workers is an extremely important and complex topic, and EBRI started to provide this type of measurement in the late 1990s with the development of the EBRI Retirement Security Projection Model® (RSPM).

When we most recently modeled the projected outcomes for Baby Boomers and Gen Xers in 2014, we found that between 57 percent and 59 percent were expected to have adequate retirement income to fund 100 percent of simulated basic retirement expenses (housing, food, etc.—plus uninsured health care costs, using EBRI’s Retirement Readiness Ratings™ (RRRs) as the gauge). Some retirement planners suggest that many households are able to successfully cut expenditures below the average expenses when financially constrained. Therefore, we also computed thresholds of 80 and 90 percent of simulated expenses and on that basis found that the RRRs for Baby Boomers and GenXers at a 90 percent threshold was between 67 and 70 percent. When the threshold was further relaxed to an 80 percent threshold, the RRRs increased to 81–84 percent.

Who is most at risk of not having adequate retirement income? Not surprisingly, lower-income households have much lower RRRs: The 2014 baseline RRRs range from 17 percent for the lowest-income households to 86 percent for the highest-income households with a 100 percent of simulated expenses threshold. At a 90 percent threshold, the RRR for the lowest-income households increases to 30 percent (indicating that 3 in 10 of those households would have sufficient financial resources to cover 90 percent of simulated retirement expenses, as detailed above). At an 80 percent threshold, 55 percent of the lowest-income households are predicted to have sufficient retirement income.

However, it should be noted that these probabilities will depend to a large extent on whether future years of employment take place with employers sponsoring defined contribution retirement plans or not. Previous EBRI analysis shows the positive impact of future years of eligibility for a defined contribution plan. For GenXers in the lowest-income quartile with no future years of eligibility in a defined contribution plan, the RRR value when measured with a 100 percent of simulated expense threshold is only 17.2 percent—indicating that more than 8 in 10 of this cohort are projected to run short of money in retirement. This value increases almost 10 percentage points, to 27.1 percent for those in the lowest-income quartile with one to nine future years of eligibility in a defined contribution plan. The RRR value increases further to 35.6 percent for those in this category who have 10–19 future years of eligibility in a defined contribution plan, and reaches a maximum value of 35.9 percent for those with 20 or more future years of eligibility in a defined contribution plan. When the threshold for a successful retirement is measured at a 90 percent of simulated expense threshold, the RRRs range from 28.6 percent for those with no future years of eligibility to 51.7 percent for those with 20 or more years. At an 80 percent of simulated expense threshold, the RRRs range from 51.7 for those with no future years of eligibility to 70.4 percent for those with 20 or more years.

2 The Potential of 401(k) Plans to Produce Adequate Income Replacement for Low-Income Workers

At least part of the concern with respect to retirement savings for low-income workers appears to stem from, among other things, a desire to increase the perceived fairness of the current retirement savings system. This “lack of fairness” hypothesis is often mentioned in conjunction with the so-called “upside-down incentives” provided by the current tax system with respect to the tax treatment of contributions in the 401(k) system.
From a purely financial economics perspective, the current federal tax treatment for 401(k) plans has advantages for workers with higher marginal tax rates (those who pay taxes at higher rates are seen as receiving a greater benefit from the deferral of those taxes), if other elements of the tax code are ignored. However (and as several EBRI publications have explained), the constraints contained in IRC Secs. 402(g) and 415(c), combined with nondiscrimination requirements for the actual deferral percentage (ADP) and actual compensation percentage (ACP) have been shown to serve their intended purpose: restricting contributions made by more highly compensated workers relative to those made by non-highly compensated workers—resulting in a relatively flat multiple of final earnings at retirement as a function of salary across the income range. Figure 9 of VanDerhei, Holden, Alonso and Bass (2013) shows the ratio of 401(k) account-balance-to-salary for participants in their 60s for the year-end 2012 version of the EBRI/ICI Participant-Directed Retirement Plan Data Collection Project, the largest, most representative repository of information of individual 401(k) plan participant accounts in the world. For those with 20 or more years of tenure, these ratios are highest for those with the lowest salary ranges. For those with shorter tenures, the ratios for the lowest-income quartile are nearly as large as those in any other income category.

While this information is certainly useful to evaluate assertions (and anecdotal claims) with respect to 401(k) plans, it needs to be supplemented with simulation modeling for a proper assessment of the potential of 401(k) plans to produce “adequate” income replacement for several reasons:

- The EBRI/ICI 401(k) database does not contain information on individual retirement account (IRA) rollovers, many of which may have originated as a 401(k) balance at an individual’s prior employer(s), and therefore may only provide information on a fraction of the participant’s retirement accumulations if there have been one or more job changes in their careers.
- Even if one looks only at 401(k) participants who are on the verge of retirement and have had significant tenure with the current employer, there is a significant likelihood that they would not have been eligible to participate in a 401(k) plan during their entire career with the current employer.
- Since the passage of the Pension Protection Act of 2006, many of the 401(k) plans that had previously allowed eligible employees to voluntarily enroll have been modified to automatically enroll eligible employees. Although these employees will have the ability to opt out of such participation, it is clear that these plans have had a substantial impact on participation rates, especially for lower-income employees.
- An analysis based solely on current balances will, of necessity, not be able to assess the impact of future employee activity (such as potential cash-out behavior at job change) nor the impact of future financial market returns.

In an attempt to assist the Subcommittee in its evaluation of the role of 401(k) plans, in December of 2013, EBRI’s RSPM was used to analyze the potential of 401(k) plans to produce “adequate” income replacement for retirement. That undertaking found that, assuming current Social Security benefits are not reduced, 86 percent of workers in the lowest-income quartile with more than 30 years of eligibility in a voluntary enrollment 401(k) plan are simulated to have sufficient 401(k) accumulations that, when combined with Social Security retirement benefits, would be able to replace at least 60 percent of their age 64 wages and salary on an inflation-adjusted basis. When the threshold for a successful retirement financing is increased to 70 percent replacement, 76 percent of these workers will still meet the threshold, based solely on the combination of projected 401(k) savings and Social Security combined. At an 80 percent replacement rate, 69 percent of the lowest-income quartile will still meet the threshold. It should be noted, however, that the percentage of those in the highest-income quartile deemed to be “successful” from just these two retirement components drops to 59 percent from 83 percent when measured against the 60 percent threshold.

When the same analysis is conducted for automatic enrollment 401(k) plans (with an annual 1 percent automatic escalation provision and empirically derived opt-outs), the probability of success for workers in the lowest-income quartile with more than 30 years of eligibility increases substantially: 94 percent at a 60 percent threshold; 90 percent at a 70 percent replacement and 85 percent at an 80 percent threshold are assumed to have sufficient resources at those levels.

Note, however, that the analysis of automatic enrollment plans mentioned above used the actual plan-specific default contribution rates (typically 3 percent of compensation). Many have questioned the wisdom of continuing to set the rates at this relatively low level in view of recent empirical evidence suggesting that higher default contribution rates may not result in a substantial increase in opt-out rates. A 2012 EBRI publication simulated the impact of increasing the current plan-specific default rates to 6 percent. Under a set of specified behavioral assumptions, more
than a quarter of those in the lowest-income quartile who had previously NOT been projected to have a financially successful retirement under actual default contribution rates were found to be successful as a result of the increase in default deferral percentage.

3 What are the Primary Risks for Low-Income Workers After Retirement?

While the probabilities of not running short of money in retirement for a low-income Baby Boomer or Gen Xer is 17 percent when a threshold of 100 percent of simulated expenses is used, 30 percent with a 90 percent threshold, and 55 percent with an 80 percent threshold, it should be noted that these are averages for households in these cohorts, and the actual results may differ markedly, depending on how various risk contingencies play out after retirement. In 2006, EBRI provided a detailed analysis of the replacement-rate levels required to provide retirees with various probabilities of having “sufficient” retirement income. As part of the analysis, a “building block” approach was adopted where the risks of investment, longevity and long-term health care costs were added in incremental layers. The impact of two of these risks are analyzed below.

3.1 Longevity Risk

In an attempt to assess the impact of longevity on retirement income adequacy, relative longevity quartiles were established based on family status, gender, and age cohort. It should be noted that the impact would not be as severe if all retirement income was taken in the form of an annuity (either as a real annuity such as Social Security, or a nominal annuity such as that offered by private-sector defined benefit plans); however, given that only a very small percentage of defined contribution and IRA balances are currently annuitized (and that an increasing percentage of defined benefit accruals are taken as lump-sum distributions when the option is available), the prospect of “out-living” their retirement wealth is a very real risk for many low-income Baby Boomers and Gen Xers.

Figure 1 shows the impact of relative longevity quartiles on 2014 RRRs by preretirement income quartile. For the lowest-income quartile simulated to die in the earliest relative longevity quartile, the RRR with a 100 percent expenditure threshold is 36.7 percent. This is 19.9 percentage points larger than the overall average for this income cohort. This value decreases slightly to 20.1 percent in the second relative longevity quartile and 5.6 percent in the third relative longevity quartile. For the lowest-income quartile with the longest relative longevity, the RRR falls all the way to 2.8 percent. Similar influences are found when less rigorous thresholds are used. With a 90 percent of simulated expense threshold, the RRR for the earliest relative longevity quartile is 57.2 percent decreasing to only 9.0 percent for those with the longest relative longevity. The gap between the earliest and latest quartile is approximately the same at the 80 percent threshold, with 79.2 percent of those in the earliest quartile having sufficient retirement income decreasing to only 34.8 percent of those in the latest (longest-living) quartile.

3.2 Long-Term Care Risk

One of the primary findings of a 2012 EBRI publication on retirement income adequacy was the significant impact of stochastic health care costs on overall retirement income adequacy. These include health care costs in retirement that are not likely to occur every year (in fact they may never occur for many households), but when they do they may have a catastrophic financial impact, due to their relatively high daily cost and/or potentially long duration. Unlike many other retirement projection models, RSPM has explicitly included the costs of nursing home and home health care costs in its decumulation model since its initial release in 2003 to account for these contingencies.

Figure 2 filters out those simulated life-paths with no stochastic health care costs in retirement and categorizes those costs into quartiles (based on the present value at age 65 of the per capita stochastic health care costs in 2014 dollars). Assuming a threshold of 100 percent coverage of simulated expenses, the results for the lowest-income quartile show that for this group of families unfortunate enough to experience the highest quartile of stochastic health care costs, the probability of not running short of money in retirement is virtually zero (an RRR value of 0.1 percent). Not surprisingly, those in the lowest-income quartile who experience the lowest quartile of stochastic health care costs have a much higher probability of having enough money, with an RRR value of 30.0 percent. At a 90 percent expense threshold, 59.3 percent of the households in the bottom quartile of stochastic health care costs have adequate retirement income, but those in the top quartile are still virtually certain to run short of money (an
Figure 1
Impact of Relative Longevity Quartile* on 2014 Retirement Readiness Ratings,™ for Lowest Income Quartile

<table>
<thead>
<tr>
<th>Longevity Quartile</th>
<th>100 percent</th>
<th>90 percent</th>
<th>80 percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earliest</td>
<td>36.7%</td>
<td>57.2%</td>
<td>79.2%</td>
</tr>
<tr>
<td>Second</td>
<td>20.1%</td>
<td>37.1%</td>
<td>64.9%</td>
</tr>
<tr>
<td>Third</td>
<td>5.6%</td>
<td>13.7%</td>
<td>37.0%</td>
</tr>
<tr>
<td>Latest</td>
<td>2.8%</td>
<td>9.0%</td>
<td>34.8%</td>
</tr>
</tbody>
</table>

Note: The values in this figure represent the percentages of simulated life-paths that will not run short of money in retirement assuming that 100 percent of simulated retirement expenses are paid.
* The longevity quartile is established relative to family status, gender, and age cohort.

Figure 2
Impact of Stochastic Health Care Costs on 2014 Retirement Readiness Ratings,™ by Preretirement Wage Quartile: Only Those Simulated Retirement Paths With Stochastic Health Care Costs Greater Than Zero

<table>
<thead>
<tr>
<th>Wage Quartile</th>
<th>100 percent</th>
<th>90 percent</th>
<th>80 percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom Quartile*</td>
<td>30.0%</td>
<td>59.3%</td>
<td>91.9%</td>
</tr>
<tr>
<td>Second</td>
<td>13.6%</td>
<td>36.5%</td>
<td>65.4%</td>
</tr>
<tr>
<td>Third</td>
<td>1.1%</td>
<td>4.5%</td>
<td>36.9%</td>
</tr>
<tr>
<td>Top Quartile</td>
<td>0.1%</td>
<td>0.8%</td>
<td>9.0%</td>
</tr>
</tbody>
</table>

Note: The values in this figure represent the percentages of simulated life-paths that will not run short of money in retirement assuming that 100 percent of simulated retirement expenses are paid.
* Measured as quartile of present value at age 65 per capita stochastic health care costs in 2014 dollars.
RRR of just 0.8 percent). At an 80 percent expense threshold, the RRR for households in the bottom quartile of stochastic health care costs jumps to 91.9 percent while those in the top quartile increase only to 9 percent.

4 Retirement Confidence for Low-Income Workers

While individual confidence of achieving a financially comfortable retirement is not dispositive of the reality of that goal, it can be instructive in crafting educational and policy goals. Drawing results from the 24th annual Retirement Confidence Survey, Figure 3 shows the distribution of confidence in 2014 that, for households with income of less than $35,000, the respondent (and spouse) will have enough money to live comfortably throughout retirement years. Although a total of 42 percent of these low-income households were not at all confident they would have enough money for this definition of retirement income adequacy, the numbers diverged substantially when the sample was bifurcated into those with a retirement plan and those without. Only 18 percent of those with a plan were not at all confident, but this lack of confidence increased to more than half (52 percent) for those without a plan.

![Figure 3](chart.png)

Distribution of confidence in 2014 that respondent (and spouse) will have enough money to live comfortably throughout retirement years by whether the household has a retirement plan:

- **Households with income of less than $35,000**
  - Not at all confident: 52%
  - Not too confident: 30%
  - Somewhat confident: 10%
  - Very confident: 8%

Source: Employee Benefit Research Institute and Greenwald & Associates, 2014 Retirement Confidence Survey

*Has a retirement plan is defined as any household that currently has at least one of the following: an IRA, money in an employer-sponsored retirement savings plan, or a defined benefit plan.

Additional analysis was conducted with respect to confidence in having enough money to pay for long-term care (should it be needed) during retirement. Respondents with household incomes less than $35,000 appear to be quite cognizant of the risks shown in Figure 2, as 52 percent were not at all confident about this aspect of their retirement costs. This compares with 30 percent of respondents with household income between $35,000 and $75,000 and 13 percent for those with household incomes above $75,000.
5 Summary

Since 2003, EBRI research has analyzed the retirement savings and retirement income adequacy of low-income Baby Boomers and Gen Xers in the United States. This statement highlights those previous results and provides new evidence on the importance of proper risk management techniques as a growing number of low-income workers approach retirement age. It would appear that while RRR values depend to a large degree on a household’s future years of eligibility in a defined contribution plan (as well as whether future Social Security retirement benefits are reduced\(^1\)), a great deal of the variability in these values could be mitigated by appropriate risk-management techniques at or near retirement age.

For example, the annuitization of a portion of the defined contribution and IRA balances may substantially increase the probability of not running short of money throughout retirement (VanDerhei, September 2006 and Park, 2011). Moreover, a well-functioning market in long-term care insurance would appear to provide an extremely useful technique to help limit the financial volatility from the stochastic, long-term health care risk.

EBRI looks forward to assisting the members of the Subcommittee as they continue their investigations into this extremely important public policy topic.

Appendix A: Brief Chronology of the EBRI Retirement Security Projection Model\(^\text{®}\)

- The Retirement Security Projection Model\(^\text{®}\) (RSPM) grew out of a multi-year project to analyze the future economic well-being of the retired population at the state level. The Employee Benefit Research Institute (EBRI) and the Milbank Memorial Fund, working with the office of the governor of Oregon, set out in the late 1990s to see if this situation could be evaluated for the state. The resulting analysis (VanDerhei and Copeland, September 2001) focused primarily on simulated retirement wealth with a comparison to ad hoc thresholds for retirement expenditures.
- The April 2001 EBRI Issue Brief (VanDerhei and Copeland, April 2001) highlighted the changes in private pension plan participation for defined benefit (DB) and defined contribution (DC) plans and used the model to quantify how much the importance of individual-account plans was expected to increase because of these changes.
- With the assistance of the Kansas Insurance Department, EBRI was able to create the EBRI Retirement Readiness Rating\(^\text{™}\) (RRR) based on a full stochastic decumulation model that took into account the household’s longevity risk, post-retirement investment risk, and exposure to long-term nursing-home and home-health-care risks. The first state-level RSPM results were presented to the Kansas’ Long-Term Care Services Task Force on July 11, 2002 (VanDerhei and Copeland, July 2002), and the results of the Massachusetts study were presented on Dec. 1, 2002 (VanDerhei and Copeland, December 2002).
- RSPM was expanded to a national model—the first national, micro-simulation, retirement-income-adequacy model, built in part from administrative 401(k) data. The initial results were presented at the EBRI December 2003 policy forum (VanDerhei and Copeland, 2003).
- The basic model was subsequently modified for testimony for the Senate Special Committee on Aging to quantify the beneficial impact of a mandatory contribution of 5 percent of compensation. (VanDerhei, January 2004).
- The model was enhanced to allow an analysis of the impact of annuitizing defined contribution and individual retirement account (IRA) balances at retirement age (VanDerhei and Copeland, 2004).
- Additional refinements were introduced to evaluate the impact of purchasing long-term care insurance on retirement income adequacy (VanDerhei, 2005).
- The model was used to evaluate the impact of defined benefit freezes on participants by simulating the minimum employer-contribution rate that would be needed to financially indemnify the employees for the reduction in their expected retirement income under various rate-of-return assumptions (VanDerhei, March 2006).
- Later that year, an updated version of the model was developed to enhance the EBRI interactive Ballpark ESTimate\(^\text{®}\) by providing Monte Carlo simulations of the replacement rates needed for specific probabilities of retirement income adequacy under alternative-risk-management treatments (VanDerhei, September 2006).
• RSPM was significantly enhanced for the May 2008 EBRI policy forum by allowing automatic enrollment of 401(k) participants with the potential for automatic escalation of contributions to be included (VanDerhei and Copeland, 2008).

• Additional modifications were added for a Pension Research Council presentation that involved a “winners/losers” analysis of defined benefit freezes and the enhanced employer contributions provided to defined contribution plans at the time the defined benefit plans were frozen (Copeland and VanDerhei, 2010).

• Also in 2009, a new subroutine was added to allow simulations of various styles of target-date funds for a comparison with participant-directed investments (VanDerhei, June 2009).

• In April 2010, the model was completely re-parameterized with 401(k)-plan design parameters for sponsors that had adopted automatic-enrollment provisions (VanDerhei, April 2010).

• A completely updated version of the national model was produced for the May 2010 EBRI Policy Forum and used in the July 2010 EBRI Issue Brief (VanDerhei and Copeland, 2010).

• The new model was used to analyze how eligibility for participation in a defined contribution plan impacts retirement income adequacy in September 2010 (VanDerhei, September 2010), and was later used to compute Retirement Savings Shortfalls (RSS) for Baby Boomers and Generation Xers in October 2010 (VanDerhei, October 2010a).

• In October testimony before the Senate Health, Education, Labor and Pensions Committee on “The Wobbly Stool: Retirement (In)security in America,” the model was used to analyze the relative importance of employer-provided retirement benefits and Social Security (VanDerhei, October 2010b).

• The November 2010 EBRI Issue Brief expanded upon earlier work by EBRI to provide the first results of a new simulation model that estimated the impact of changing 401(k) plan design variables and assumptions on retirement income adequacy. Until recently however, there was extremely limited evidence on the impact of automatic contribution escalation (VanDerhei and Lucas, 2010).

• In February 2011, the model was used to analyze the impact of the 2008–2009 crisis in the financial and real estate markets on retirement income adequacy (VanDerhei, February 2011).

• An April 2011 article introduced a new method of analyzing the results from RSPM (VanDerhei, April 2011). Rather than simply computing an overall percentage of the simulated life-paths in a particular cohort that would not have sufficient retirement income to pay for the simulated expenses, the new method computed the percentage of households that would meet that requirement more than a specified percentage of times in the simulation.

• As explored in the June 2011 EBRI Issue Brief, RSPM allowed retirement income adequacy to be assessed at retirement ages later than 65 (VanDerhei and Copeland, June 2011).

• In a July 2011 EBRI Notes article (VanDerhei, July 2011), RSPM was used to provide preliminary evidence of the impact of the “20/20 caps” on projected retirement accumulations proposed by the National Commission on Fiscal Responsibility and Reform.

• The August 2011 EBRI Notes article (VanDerhei, August 2011) used RSPM to analyze the impact of defined benefit plans in achieving retirement income adequacy for Baby Boomers and Gen Xers.

• In September, it was used to support testimony before the Senate Finance Committee (VanDerhei, September 2011) in analyzing the potential impact of various types of tax-reform options on retirement income. This was expanded in the November 2011 EBRI Issue Brief (VanDerhei, November 2011).

• A March 2012 EBRI Notes article (VanDerhei, March 2012) used new survey results to update the analysis of the potential impact of various types of tax-reform options on retirement income.

• The May 2012 EBRI Notes article (VanDerhei, May 2012) provided 2012 updates for the previously published RRRs as well as the RSS.

• The June 2012 EBRI Notes article (VanDerhei, June 2012) introduced severity categories in the RSS projections for Gen Xers.

• The August 2012 EBRI Notes article (VanDerhei, August 2012) provided additional evidence on whether deferring retirement to age 70 would provide retirement income adequacy for the vast majority of Baby Boomers and Gen Xers.

• The September 2012 EBRI Notes article (VanDerhei, September 2012) analyzed the impact of increasing the default-contribution rate for automatic enrollment 401(k) plans with automatic escalation of contributions.

• The November 2012 EBRI Notes article (VanDerhei, November 2012) reclassified the RRRs to provide additional information on those substantially above the threshold; close to the threshold; and substantially below the threshold.
• The March 2013 EBRI Notes article (VanDerhei and Adams, March 2013) used a modified version of RSPM to assess the probability that respondent households would not run short of money in retirement if they did, in fact, accumulate the amount they said would be required in the 2013 Retirement Confidence Survey.

• The June 2013 EBRI Issue Brief (VanDerhei, June 2013a) used RSPM to provide a direct comparison of the likely benefits under specific types of DC and DB retirement plans.

• The June 2013 EBRI Notes article (VanDerhei, June 2013b) used RSPM to show that 25–27 percent of Baby Boomers and Gen Xers who would have had adequate retirement income under return assumptions based on historical averages were simulated to end up running short of money in retirement if today’s historically low interest rates were assumed to be a permanent condition.

• The August 2013 EBRI Issue Brief (VanDerhei, August 2013) used RSPM to analyze the Obama administration’s fiscal year (FY) 2014 budget proposal to include a cap on tax-deferred retirement savings that would limit the amounts accumulated in specified retirement accounts to that necessary to provide the maximum annuity permitted for a tax-qualified defined benefit plan under current law.

• The December 2013 EBRI Notes article (VanDerhei, December 2013) used RSPM to expand the analysis in the June 2013 Issue Brief. Rather than trying to reflect the real-world variation in DB accruals, the baseline analysis in the previous analysis used the median accrual rate in the sample (1.5 percent of final compensation per year of participation) as the stylized value for the baseline counterfactual simulations. The new research computed the actual final-average DB accrual that would be required to provide an equal amount of retirement income at age 65 as would be produced by the annuitized value of the projected sum of the 401(k) and IRA rollover balances.

• The January 2014 EBRI Notes article (VanDerhei, January 2014) used RSPM to model the likelihood that 401(k) participants currently ages 25–29 would have sufficient 401(k) accumulations that, when combined with Social Security benefits, could replace 60, 70 or 80 percent of their preretirement income on an inflation-adjusted basis.

References


_____ “All or Nothing? An Expanded Perspective on Retirement Readiness.” EBRI Notes, no. 11 (Employee Benefit Research Institute, November 2012): 11–23.

endnotes

1 See Appendix A for a brief chronology of the model.
2 VanDerhei (February 2014).
3 Preretirement income in RSPM is determined in a manner similar to the average-indexed-monthly-earnings computation for Social Security with the following modifications:
   - All earned income is included up to the age of retirement (i.e., there is no maximum taxable wage base constraint, and the calculation terminates at retirement age).
   - Instead of indexing for changes in average national wages, the model indexes based on assumed, after-tax rate of return based on asset allocations that are a function of the individual’s age in each year.
Percentile distributions are then established based on population statistics for each five-year age cohort.
4 Figure 3 of VanDerhei (February 2014).
5 Only Gen Xers are shown in this portion of the analysis given their longer future working careers until age 65.
6 See VanDerhei (March 2011) for more detail.
7 The proposed regulations for 401(k) plans were first introduced in November of 1981 and it took several years for many sponsors to introduce the plans. Moreover, many plans that were originally introduced as supplemental plans to existing defined benefit plans have been modified to provide more generous employer contributions at the time the defined benefit plans were frozen (VanDerhei, April 2010).
8 See Figure 23 of Utkus and Young (2013) for recent evidence.
9 Additional details on RSPM and the assumptions used in 2013 can be found in VanDerhei (June 2013). The financial market results are generated from stochastic annual returns with a log-normal distribution and an arithmetic mean of 8.6-percent real return for stocks and 2.6 percent real return for bonds.
10 VanDerhei (September 2012).
11 VanDerhei (September 2006).
12 EBRI is currently working on a separate study to model sequence of return risk that will need to be completed before investment risk in the decumulation period can be appropriately analyzed in RSPM.
13 VanDerhei (August 2012).
14 Note that even though Medicaid eligibility is factored into RSPM, an extended stay in a nursing home is still likely to leave those alive at the end of the nursing home stay (or the surviving spouse) in a financially depleted condition.
15 Defined as any household that currently has at least one of the following: an IRA, money in an employer-sponsored retirement savings plan, or a defined benefit plan.
16 Another 21 percent of respondents in this group were not too confident.
17 See VanDerhei (February 2014) for details.