

WORKING PAPER

The Social Security Early Retirement Benefit as a Safety Net

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Abstract

In this paper, we use the Health and Retirement Study to examine the health and economic status of those who collect Social Security retirement benefits prior to the full retirement age. We use a propensity score reweighting method to estimate the fraction of early retirees who use early retirement benefits as a safety net against deteriorating health and who might be induced to apply for disability benefits (SSDI) or retire without income replacement if the generosity or availability of early retirement benefits were reduced. We find that while the majority of early retirees would likely not qualify for disability benefits, approximately one in five have health characteristics similar to SSDI beneficiaries, and thus might not be able to replace losses in benefit income with labor income.

Introduction and Background

As the baby boom generation begins to retire and fiscal pressures from entitlement programs become more acute, evidence of improving health and increasing life expectancy in these cohorts has led many to suggest taking advantage of improved work capacity among older adults by increasing age requirements for the Social Security and Medicare programs. Currently, however, more than half of workers start receiving Social Security benefits before they reach full retirement age, and many of those who do are in relatively poor health. Data from the 1990 Census show that roughly half of men and a third of women out of the workforce at age 62 identify themselves as having a health condition that limits their ability to work (Bound et al. 2000). While the health of the average 62-year-old may well have improved, policies that reduce availability of benefits (e.g., raising the early retirement age), or reduce their value (raising the full retirement age, thereby reducing monthly benefits for early retirees) will affect both the healthy and unhealthy alike. The purpose of this paper is to systematically investigate the extent to which the availability of early Social Security benefits provides a safety net for those in poor health, who are either not in poor enough health to be eligible for disability benefits or who, for whatever reason, did not apply for them.

The estimation strategy compares the distributions of observable characteristics between those who receive such benefits and those who do not. The larger the degree of overlap in these distributions, the larger the fraction of nonrecipients who might be eligible. One important policy implication of this estimate is that a larger potentially eligible pool among nonrecipients would reduce the desired labor force participation response to an increase in eligibility age. A further implication of finding a large amount of overlap in these distributions is that an increased

eligibility age for retirement benefits could induce an increased rate of application for DI benefits.

Data and Methods

We used pooled data from the 1992–2006 waves of the Health and Retirement Study and stratified respondents into four categories: (a) those who reach age 62 and are receiving benefits through Social Security Disability Insurance (DI) or Supplemental Security Income (SSI); (b) those who reach age 62 and immediately start receiving early retirement benefits; (c) those who start receiving social security benefits after they would first qualify for them, but before full retirement age; and (d) those who start receiving such benefits when they reach full retirement age. Then for each respondent, using the last survey interview prior to their 63rd birthday (hereafter called the “reference interview”), we define an extensive set of demographic, economic and health characteristics.

We first estimated a logit model of DI/SSI participation (DI_i) prior to age 62 using observable characteristics (X_i) as of the reference interview. That is, we estimate a maximum likelihood model of the form

$$\text{Prob}(DI_i) = \frac{e^{X_i\beta}}{1 + e^{X_i\beta}}$$

The individual characteristics in X include basic demographic information (race/ethnicity, education, and marital status), and detailed indicators of disease prevalence, limitations of physical function, and a measure of general health status. Models were estimated separately by gender. We also tested an alternative specification for the probability model that also included a variable indicating that the respondent reports a health-related limitation in their ability to work.

Using the estimated coefficients (β) from these models, we calculated a DI-eligibility propensity score for each individual, $P_i = e^{X_i\beta} / (1 + e^{X_i\beta})$. We first used these propensity scores to estimate the amount of overlap in the distributions of DI eligibility. In particular, we calculated the percentage of the non-DI population with DI propensity scores higher than fixed percentiles (1st, 5th, 10th, 25th, and 50th) of the DI beneficiary group. We also used these scores to create two alternative definitions of SSDI-eligibility. The more generous definition classified those with propensity scores above the 10th percentile of DI beneficiaries as DI-eligible. The more restrictive definition used the 25th percentile as the eligibility threshold.

In order to investigate the extent to which retirement age choices differed by the likelihood of DI eligibility, we reweighted the non-DI sample in two ways (DiNardo et al. 1996; Barsky et al. 2002). The first multiplies the HRS sampling weights by the factor $\gamma = \frac{P_i}{1-P_i} * \frac{1-P}{P}$ and generates a subsample of nonbeneficiaries that has a distribution of characteristics most similar to DI beneficiaries. The second, multiplying by $1/\gamma$, generates a subsample that is least similar to the DI beneficiaries. We then compare the distribution of retirement ages between these two reweighted samples.

Results

Table 1 presents descriptive statistics on the four populations (stratified by DI status and retirement age) for men and for women. Among both men and women, we found that DI beneficiaries were more likely to be nonwhite, more likely to have low levels educational attainment, and less likely to be married than those who collect Social Security retirement benefits after age 62. Not surprisingly, across many measures, DI beneficiaries are in significantly worse health at age 62 than the average respondent who does not receive DI

benefits. These measures include multiple indicators of diagnosed chronic disease, the prevalence of nonspecific symptoms (back and foot problems, frequent pain), limitations of physical function, general health status, and self-reported limitations in the ability to work. In terms of economic resources, those on DI are significantly disadvantaged in both household income (from non-social security sources) and financial wealth.

While the availability of sufficient resources may allow earlier retirement, other things equal, the comparison of non-DI retirees by their age of collecting benefits suggests something different. First, especially among men, those who collected retirement benefits sooner had lower average income and assets. Consistent with the hypothesis that those in relatively poor health use early retirement benefits to offset the income loss associated with poor health, the data suggest that if there is a pattern, early retirees tend to be in worse health than those who wait until the full retirement age to collect benefits.

To estimate which recipients of retirement benefits were in poor enough health to qualify for DI benefits, we used these observable characteristics to calculate a propensity score for DI eligibility for each individual based on their characteristics as measured at age 62.¹ Figure 1 presents the distributions of the natural log of the odds ratio ($X_i\beta$) for the DI group and the three non-DI groups. As expected, the scores for those on DI are higher for both men and women, but there is substantial overlap in the distributions, especially for women. For men, a comparison of the distributions of the three non-DI groups shows that earlier retirees have higher DI scores than those who wait until their full retirement age to collect Social Security. For women, the patterns are less clear, however.

¹ Logit estimates used to calculate propensity scores for DI eligibility are presented in Table A1.

Table 2 presents a summary of these comparisons. For each group of retirees, we calculated the fraction of the group who would, based on DI propensity scores, be at least as “eligible” for DI as the person at the 1st, 5th, 10th, 25th, and 50th percentiles of the score distribution among DI beneficiaries. For men, while there is a substantial overlap in the distributions, between 30 and 40 percent of the non-DI groups would be in the bottom 5 percent of the score distribution of DI beneficiaries. Half to 65 percent would be in the lowest 10 percent, and 80 to 90 percent would be in the lowest quarter of the distribution. On the other hand, this still leaves 18 percent of the men who collect retirement benefits as early as possible who would be firmly in the heart of the DI distribution, and 6 percent who score higher than the median DI beneficiary. In contrast, the men who wait until their full retirement age to begin receiving benefits are significantly less likely to score as highly on this scale. The same pattern by age at receiving retirement benefits does not hold for women. Regardless of the threshold, women who waited until their full retirement age were more likely to qualify for DI benefits when they were 62 than those who started receiving those benefits at the earliest possible date.

In table 3 we use the 25th percentile of the male DI beneficiary score distribution to define the segment of the non-DI groups most likely to be DI eligible, and examine the characteristics of this group, relative to both actual DI beneficiaries and the low-propensity-score group. As indicated in table 2, this high propensity group constitutes 18 percent of those who began collecting retirement benefits as early as possible, and 12 percent of those who began collecting benefits at older ages. Within this group, the subgroup of most interest is made up of those who took retirement benefits as early as possible. On nearly every measure, the average man in this group was in similar or worse health than the average DI beneficiary at 62. In addition, these early retirees had similar levels of income and wealth and had comparable

demographic characteristics to DI beneficiaries. Thus, it is not difficult to imagine that they would be likely to apply for DI benefits if the early retirement benefit were not available. Compared with men who retired the earliest, the high-propensity men who waited to receive retirement benefits appear to have had greater access to economic resources, both through income and wealth and through the presence of a spouse. Health status at age 62, however, was not generally better than the earliest retirees. Perhaps most importantly, the high propensity groups look more like DI recipients than like their lower-propensity counterparts (shown in the rightmost columns of the table), regardless of age.

Table 4 shows the same calculations for women, and paints a similar picture of a subset of non-DI recipients who look very similar to DI beneficiaries. The most important difference between men and women is the higher share of women not receiving DI benefits who appear to be eligible for the program. This difference is most striking among women who waited until their full retirement age to begin receiving benefits, 41 percent of whom (table 2) appear to be eligible on the basis of their observable characteristics, compared with 12 percent of men who waited until full retirement age. This difference suggests men and women make different decisions about when to retire. One possible explanation is the very high percentage of high-DI-propensity/late-retiree women who are not married. These women may remain in the labor force in spite of poor health status because spousal income is not available to compensate for the income that would be forgone in retirement.

Finally, in table 5, we calculate the distribution of retirement age among non-DI beneficiaries using propensity reweighting to generate two complementary samples. The “eligible” subsample, by construction, has a distribution of health and demographic characteristics (as measured at age 62) that closely matches DI beneficiaries, while the

“ineligible” subsample contains the remainder of the nonbeneficiaries. In the top right panel, the retirement age distribution of DI-eligible men is substantially younger than the distribution of ineligible men. Sixty-five percent of eligible men choose to collect retirement benefits at the earliest possible date, while less than half of ineligible men do the same. The differences for single men are even starker. For women, we do not find a substantial difference between the eligible and ineligible subsamples when we look at both married and unmarried women. However, among single women, about half of the DI eligible sample collects benefits at the earliest age while less than a third of ineligible women do the same.

Discussion

Some analysts have used evidence of improving functional health of the elderly and near-elderly to support proposals to raise the full (and early) retirement ages for Social Security (Liebman et al. 2005; Mermin and Steuerle 2006). The group most likely to be adversely affected by such a change are those who use early retirement as a safety net when declining health compromises their ability to work. To more fully evaluate this policy option, it is necessary to estimate the size of this group. If a substantial portion of early retirees look very much like those who qualified for DI/SSI, there is likely to be an increase in DI/SSI applications, as the most disabled early retirees seek to replace lost income. The larger this group, the larger the welfare loss from added costs of the application process for both the applicant and the government, and from classification errors created by imperfect screening of work capacity. Further, to the extent that early retirees successfully apply for DI/SSI, there will also be a smaller fiscal savings from unpaid benefits. In fact, because the DI benefit is actuarially more generous, payments for successful applicants will actually increase. To the extent that these workers do not meet the medical eligibility criteria for DI, but are still limited in their ability to work, an increased retirement age may induce workers

to remain in jobs beyond the point where their reduced productivity warrants. Conversely, to the extent early retirees are largely those with the financial wherewithal to forgo earnings, the more attractive are proposals to raise eligibility ages.

The analyses completed to this point suggest several preliminary conclusions. First, while the average early retiree is in better health than the average DI recipient, there are a notable fraction of early retirees who are observationally undistinguishable from DI recipients. For these people, eliminating their ability to collect on their retirement benefits at age 62 could result in their applying for DI benefits. Those who are successful would collect higher benefits from SSA, and those who are denied may still be too impaired to work. For men, early retirees look more like DI recipients than later retirees, lending support to the hypothesis that some use the ER benefit as a safety net against failing health. Women who use early retirement, on the other hand, appear to be healthier. More importantly, they are married. An analysis restricted to single women (not shown) has dramatically different findings. Nearly half of women taking early retirement benefits meet the 25th percentile criterion for simulated DI eligibility, while only 28 percent of women who waited to full retirement age have propensity scores this high. Thus, the reversal between men and women in the correlation between health and early retirement appears to be an artifact of differences in retirement behavior linked to marital status. Single women in relatively poor health would thus be most negatively affected by changes in retirement age policies.

Directions for Future Analyses

To date, we have analyzed only self-reported data from the HRS. In addition to these analyses, we hope to be able to compare information on the Social Security Administration's 831 files—which include administrative information on those who apply for DI or SSI disability benefits—

to the information available from HRS respondents. While we and other researchers have used the HRS respondents' self-reports on their application for disability benefits, there is reason to believe that the information obtained from such reports may not be reliable. Indeed, there is reason to worry that respondents who have applied for DI or SSI benefits and had their applications denied may not always report this fact. The relatively few HRS respondents who report that they have applied for DI or SSI benefits but have these applications denied certainly suggests that this might be the case.

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Table 1. Selected Demographic, Health, and Economic Characteristics, by SSDI Status and Age at Retirement

Characteristics at age 62	Men				Women			
	SSDI beneficiaries	First receipt of SS benefits			SSDI beneficiaries	First receipt of SS benefits		
		62	63 - FRA	FRA		62	63 - FRA	FRA
Demographic Characteristics								
Black	0.128	0.079	0.079	0.059	0.148	0.059	0.064	0.085
Hispanic	0.068	0.047	0.048	0.051	0.075	0.042	0.060	0.047
Less than High School	0.344	0.216	0.196	0.157	0.333	0.168	0.172	0.150
College Graduate	0.084	0.217	0.223	0.331	0.092	0.134	0.233	0.267
Unmarried/partnered	0.241	0.147	0.094	0.104	0.488	0.107	0.171	0.373
Chronic Disease Prevalence								
Hypertension	0.573	0.445	0.423	0.342	0.520	0.438	0.394	0.356
Diabetes	0.262	0.135	0.110	0.085	0.179	0.095	0.108	0.073
Cancer	0.102	0.069	0.066	0.047	0.125	0.110	0.075	0.074
Lung disease	0.183	0.059	0.067	0.031	0.171	0.067	0.070	0.061
Heart Disease	0.433	0.329	0.290	0.295	0.311	0.265	0.198	0.287
Stroke	0.129	0.024	0.031	0.031	0.072	0.028	0.020	0.032
Psych	0.229	0.069	0.058	0.048	0.300	0.129	0.107	0.079
Arthritis	0.611	0.427	0.449	0.368	0.684	0.545	0.549	0.521
Back problem	0.457	0.265	0.269	0.269	0.439	0.278	0.289	0.206
Foot problem	0.294	0.112	0.131	0.083	0.279	0.156	0.134	0.150
Frequent Pain	0.490	0.208	0.213	0.138	0.430	0.241	0.231	0.213
Other Health Measures								
Upper Body Limitation	0.519	0.160	0.131	0.100	0.538	0.254	0.254	0.227
Lower Body Limitation	0.769	0.446	0.444	0.302	0.731	0.596	0.539	0.526
Fair/Poor Health	0.567	0.156	0.139	0.083	0.439	0.131	0.136	0.085
Work Limitation	0.741	0.154	0.104	0.080	0.532	0.197	0.136	0.058
Economic Resources								
Non-Social Security Income	17,641	42,850	62,359	94,819	20,306	27,064	41,178	47,761
Non-Housing Assets	96,700	224,464	295,266	388,498	147,644	257,804	267,521	220,409
Ever applied for DI		0.052	0.031	0.009		0.045	0.043	0.019

Note: Characteristics are measured at last interview before 63rd birthday.

Source: Authors' tabulations based on 1992–2006 Health and Retirement Study.

Table 2. Distribution of Predicted SSDI Eligibility Compared to Distribution of SSDI Recipients, by Age at Retirement

	Men				Women			
	SSDI beneficiaries	First receipt of SS benefits			SSDI beneficiaries	First receipt of SS benefits		
		62	63 - FRA	FRA		62	63 - FRA	FRA
<i>Percent with propensity scores greater than threshold</i>								
PS>1st percentile of DI dist	99	86	88	78	99	92	90	95
PS>5th percentile of DI dist	95	72	71	59	95	81	76	82
PS>10th percentile of DI dist	90	52	52	35	90	61	59	63
PS>25th percentile of DI dist	75	18	12	12	75	25	29	41
PS>50th percentile of DI dist	50	6	4	2	50	8	12	10

Source: Authors' tabulations based on 1992–2006 HRS.

Table 3. Select Characteristics by Actual and Imputed DI Eligibility Status, Men

Characteristics (at 62)	SSDI beneficiaries	DI-"eligible" (PS \geq 25th percentile)			DI-"ineligible" (PS<25th percentile)		
		First receipt of SS benefits					
		62	63 - FRA	FRA	62	63 - FRA	FRA
Nonwhite	0.215	0.293	0.219	0.185	0.115	0.133	0.119
Less than high school	0.344	0.381	0.287	0.342	0.179	0.183	0.133
College graduate	0.084	0.060	0.000	0.032	0.252	0.254	0.369
Unmarried/partnered	0.241	0.258	0.159	0.128	0.122	0.084	0.100
Diabetes	0.262	0.288	0.141	0.315	0.101	0.106	0.055
Heart disease	0.433	0.408	0.453	0.461	0.312	0.268	0.273
Stroke	0.129	0.095	0.111	0.176	0.009	0.019	0.013
Cancer	0.102	0.078	0.187	0.058	0.067	0.050	0.046
Mental illness	0.229	0.194	0.217	0.099	0.041	0.035	0.042
Back Problem	0.457	0.361	0.624	0.588	0.244	0.219	0.227
Upper body limitation	0.519	0.512	0.410	0.349	0.082	0.092	0.068
Lower body limitation	0.769	0.781	0.839	0.894	0.371	0.389	0.224
Fair/Poor health	0.567	0.627	0.637	0.551	0.051	0.070	0.022
Work limitation ^a	0.741	0.446	0.398	0.242	0.089	0.063	0.059
Ever applied for DI ^a		0.233	0.055	0.075	0.012	0.027	0.000
Non-SS income ^a	17,641	27,536	57,105	35,208	46,264	63,091	102,601
Non-housing assets ^a	96,700	113,375	223,781	134,037	249,227	305,225	421,720

a. Not part of prediction equation.

Source: Authors' tabulations of 1992–2006 HRS.

Table 4. Select Characteristics by Actual and Imputed DI Eligibility Status, Women

Characteristics (at 62)	SSDI beneficiaries	DI-"eligible" (PS \geq 25th percentile)			DI-"ineligible" (PS<25th percentile)		
		First receipt of SS benefits					
		62	63 - FRA	FRA	62	63 - FRA	FRA
Nonwhite	0.250	0.238	0.260	0.255	0.081	0.091	0.137
Less than high school	0.333	0.317	0.289	0.236	0.118	0.125	0.089
College graduate	0.092	0.078	0.092	0.257	0.153	0.289	0.274
Unmarried/partnered	0.488	0.363	0.559	0.871	0.023	0.016	0.023
Diabetes	0.179	0.185	0.122	0.101	0.066	0.102	0.053
Heart disease	0.311	0.273	0.235	0.258	0.262	0.184	0.307
Stroke	0.072	0.073	0.027	0.063	0.013	0.018	0.010
Cancer	0.125	0.180	0.095	0.068	0.087	0.066	0.079
Mental illness	0.300	0.316	0.267	0.077	0.067	0.043	0.080
Back problem	0.439	0.408	0.412	0.226	0.235	0.240	0.193
Upper body limitation	0.538	0.540	0.525	0.250	0.160	0.147	0.211
Lower body limitation	0.731	0.802	0.745	0.628	0.528	0.457	0.455
Fair/Poor health	0.439	0.460	0.400	0.134	0.022	0.030	0.050
Work limitation ^a	0.532	0.413	0.301	0.068	0.125	0.070	0.050
Ever applied for DI ^a		0.150	0.125	0.045	0.010	0.011	0.000
Non-SS income ^a	20,306	17,542	23,040	38,493	30,197	48,418	54,254
Non-housing assets ^a	147,644	121,511	80,289	111,914	302,636	342,261	296,422

a, Not part of prediction equation.

Source: Authors' tabulations of 1992–2006 HRS.

Table 5. Age at First Receipt of Social Security Retirement Benefits, by Simulated DI Eligibility Status

		Men					Single Men		
Men	Actual	Simulated DI eligibility			Actual	Simulated DI eligibility			
		eligible	ineligible			eligible	ineligible		
62	50.6	65.0	47.7	62	59.8	84.1	51.1		
63-FRA	28.3	21.5	26.7	63-FRA	22.7	10.3	23.0		
FRA	21.1	13.5	25.6	FRA	17.6	5.6	25.9		

		Women					Single Women		
Women	Actual	Simulated DI eligibility			Actual	Simulated DI eligibility			
		eligible	ineligible			eligible	ineligible		
62	57.4	54.9	58.1	62	37.3	49.5	32.7		
63-FRA	28.0	27.7	29.0	63-FRA	29.6	21.8	26.6		
FRA	14.6	17.4	13.0	FRA	33.1	28.7	40.7		

Figure 1. Distributions of Expected SSDI Eligibility, by Retirement Age

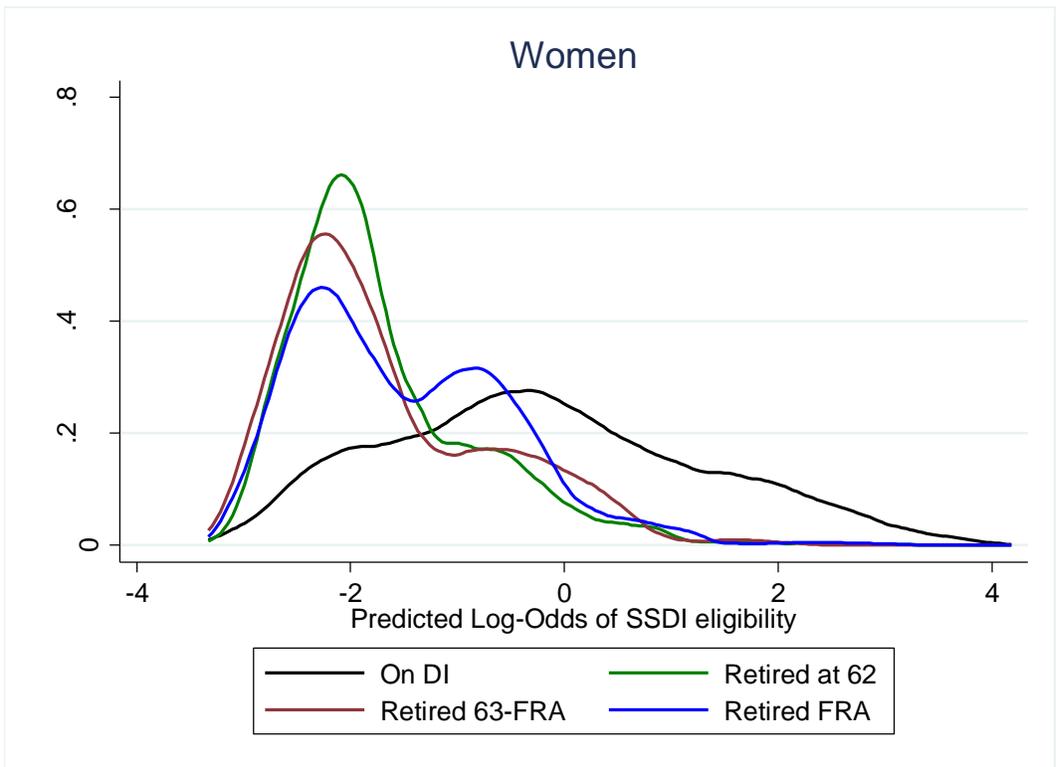
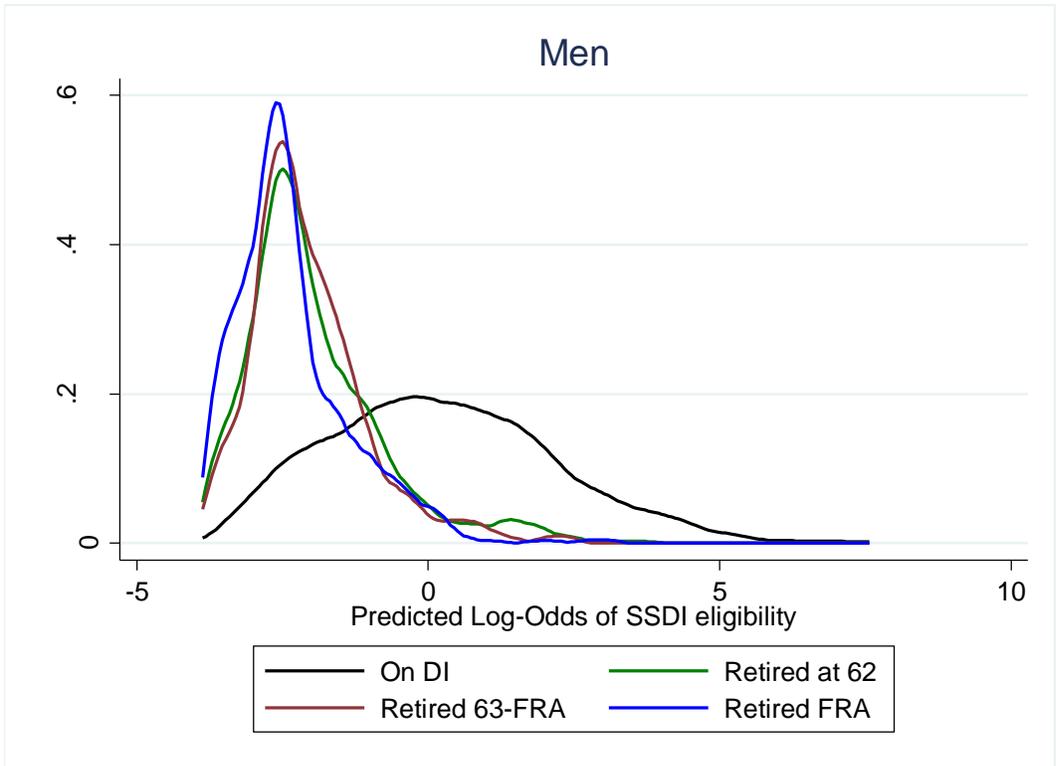


Table A1. Logit Models of SSDI Receipt before Age 62

Characteristics at age 62	Men		Women	
	Logit coefficient	<i>z-stat</i>	Logit coefficient	<i>z-stat</i>
Demographics				
Black	0.369	1.69	0.306	1.75
Other non-Hispanic	0.203	0.33	0.379	0.96
Hispanic	0.022	0.08	0.090	0.39
Less than high school	0.160	0.84	0.153	1.01
Some college	-0.236	-1.06	-0.423	-2.39
College graduate	-0.802	-2.97	-0.594	-2.84
Separated or divorced	0.754	3.37	1.602	11.68
Never married	1.036	2.42	0.613	1.89
Chronic disease prevalence				
Hypertension	-0.058	-0.36	-0.057	-0.44
Diabetes	0.559	2.75	0.082	0.46
Cancer	0.180	0.62	0.285	1.5
Lung disease	0.318	1.22	-0.138	-0.66
Heart disease	-0.164	-0.98	-0.360	-2.53
Stroke	0.982	2.97	0.306	1.06
Psych	0.721	2.99	0.599	3.65
Arthritis	0.123	0.72	0.039	0.28
Back problem	0.045	0.24	-0.004	-0.03
Foot problem	-0.163	-0.75	0.089	0.57
Frequent pain	0.226	1.13	-0.125	-0.76
Level of difficulty with physical tasks				
Jog 1 mile	0.016	0.14	-0.072	-0.84
Walk several blocks	0.396	2.68	0.312	2.7
Walk one block	0.089	0.55	0.240	1.73
Walk across room	-0.356	-1.51	-0.057	-0.27
Sit 2 hours	0.007	0.06	-0.017	-0.18
Stand	-0.010	-0.08	-0.026	-0.27
Get into/out of bed	-0.302	-1.38	-0.046	-0.23
Go up stairs	0.297	2.51	-0.032	-0.34
Go up one flight	-0.044	-0.31	0.213	1.84
Lift 10 lbs	0.214	1.59	0.155	1.55
Kneel	0.061	0.52	-0.068	-0.73
Pick up dime	0.068	0.44	-0.036	-0.29
Shower/Bathe	0.041	0.16	0.233	1.15
Reach over head	0.248	1.99	0.189	1.83
Push large object	0.476	3.71	0.177	1.85
Feed self	0.812	1.74	-0.166	-0.64
Dress self	0.301	1.72	0.098	0.59
Fair or poor health	0.876	4.81	0.675	3.98
Constant	-2.000	-10.01	-1.611	-10.21
N	1469		1914	
Likelihood ratio statistic (37 df)	567.50		524.00	
Pseudo R²	0.3370		0.2318	

Note: Characteristics are measured at last interview before 63rd birthday.

Source: Authors' analysis of 1992–2006 HRS data.