Cigolle CT, Blaum CS, Lyu C, Ha J, Kabeto M, Zhong J. Associations of age at diagnosis and duration of diabetes with morbidity and mortality among older adults. *JAMA Netw Open*. 2022;5(9):e2232766. doi:10.1001/jamanetworkopen.2022.32766

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This supplementary material has been provided by the authors to give readers additional information about their work.
eMethods.

Adjudication Methodology

The description of the adjudication methodology is taken from:

Cigolle CT, Nagel CL, Blaum CS, Liang J, Quinones AR. Inconsistency in the Self-report of Chronic Diseases in Panel Surveys: Developing an Adjudication Method for the Health and Retirement Study. *J Gerontol B Psychol Sci Soc Sci.* Jun 14 2018;73(5):901-912. doi:10.1093/geronb/gbw063

Specifically, these paragraphs are taken from pages 901-902.

“In its biennial core survey interviews, the HRS includes follow-up questions about each chronic disease that are answered by all respondents who answered “Yes” to having the disease in that wave (see Variables and Their Measurement: Chronic Diseases). We used the responses to these follow-up questions to form algorithms to adjudicate inconsistencies in the self-reported disease data across HRS waves. For example, if a respondent ever reported having heart surgery, he is deemed to always have heart disease, even in waves where he denied having heart disease. Similarly, if a respondent ever reported using insulin for diabetes, he is deemed to always have diabetes, even in waves where he denied having diabetes.

“We developed levels of adjudication that address each type of inconsistency in respondents’ self-report of chronic diseases:
Adjudication Level One: If the respondent disputed the prior wave record but now replies that he has the disease, we adjudicated his response as “Yes”. If the respondent disputed the prior wave record and replies that he does not now have the disease, we examined his prior wave responses for evidence of having the disease. If evidence was present, we adjudicated his response as “Yes”; if evidence was not present, we adjudicated his response as “No”.

Adjudication Level Two: For “Don’t know” and “Refuse to answer” responses, we examined the respondent’s prior wave responses for evidence of having the disease. If evidence was present, we adjudicated his response as “Yes”; if evidence was not present, we adjudicated his response as “No”.

Adjudication Level Three: For a “No” response in the current wave being preceded by a “Yes” response in the prior wave, we examined the respondent’s prior wave responses for evidence of having the disease. If evidence was present, we adjudicated his response as “Yes”; if evidence was not present, we adjudicated his response as “No”.

Adjudication Level Four: When a “Yes” response in the current wave was followed by a dispute of this “Yes” response in the succeeding wave, we examined the respondent’s current wave responses for evidence of having the disease. If evidence was present, we adjudicated his response as “Yes”; if evidence was not present, we adjudicated his response as “No”.

Adjudication Levels 1 through 4 are conservative correctives, based on the logic of and the phrasing within the HRS questionnaires themselves. (Fisher, Faul, Weir, et al., 2005) Levels 1 through 4 address inconsistencies in chronic disease.
reporting by respondents between adjacent waves (that the respondent participated in). To restate, Levels 1 through 4 draw on evidence from the same wave or the immediately preceding wave.”

For the present study, the evidence for diabetes includes (1) the self-reported answer “Yes” to at least one of the following questions and/or (2) A1c measurement ≥6.5.

- In order to treat or control your diabetes, are you now taking medication that you swallow?
- Are you now using insulin shots or a pump?
eFigure 1. The Cumulative Incidence Curves of All-Cause Mortality for Each Diabetes Age-at-Diagnosis Group and Its Matched-Control Group

The starting point of the follow up years is the year of diabetes diagnosis for diabetes and the matched calendar year for the matched controls (MCs). Therefore, the time scale of the cumulative incidence curve is the duration of diabetes for diabetes patients and matched aging for MCs.
eFigure 2. The Hazard Ratios of Diabetes on Distal Outcomes Incorporating Respondent-Level Sampling Weights at the Year of Matching

| Outcome                  | Events/N(%) | Events/N(%) | HR     | 95% CI       | P value | Interaction P |
|--------------------------|-------------|-------------|--------|--------------|---------|---------------|
| Diabetes age-of-diagnosis| Diabetes    | MC (Matched controls) |       |              |         |               |
| Heart Disease            |             |             |        |              |         |               |
| 50-59                    | 312/1182(26)| 199/1182(17)| 1.53   | (1.22-1.92)  | <0.001  | ref           |
| 60-69                    | 465/1657(28)| 384/1657(23)| 1.34   | (1.14-1.57)  | <0.001  | 0.34          |
| 70+                      | 361/1333(27)| 324/1333(24)| 1.07   | (0.91-1.26)  | 0.42    | 0.01          |
| Stroke                   |             |             |        |              |         |               |
| 50-59                    | 178/1412(13)| 110/1412(8)| 1.48   | (1.08-2.01)  | 0.01    | ref           |
| 60-69                    | 271/2142(13)| 192/2142(9)| 1.25   | (0.99-1.56)  | 0.06    | 0.41          |
| 70+                      | 264/1944(15)| 271/1944(14)| 1.05   | (0.88-1.26)  | 0.56    | 0.06          |
| Disability               |             |             |        |              |         |               |
| 50-59                    | 155/1462(11)| 80/1462(5)| 1.86   | (1.31-2.65)  | 0.001   | ref           |
| 60-69                    | 259/2257(11)| 199/2257(9)| 1.31   | (1.05-1.64)  | 0.02    | 0.1           |
| 70+                      | 432/2133(20)| 430/2133(20)| 1.04   | (0.91-1.21)  | 0.55    | 0.003         |
| Cognitive Impairment     |             |             |        |              |         |               |
| 50-59                    | 162/1450(13)| 158/1450(11)| 1.09   | (0.83-1.44)  | 0.54    | ref           |
| 60-69                    | 348/2165(16)| 372/2165(17)| 0.97   | (0.81-1.16)  | 0.75    | 0.49          |
| 70+                      | 509/1815(27)| 551/1915(29)| 1.01   | (0.89-1.16)  | 0.83    | 0.84          |
| Mortality                |             |             |        |              |         |               |
| 50-59                    | 446/1504(30)| 324/1504(22)| 1.28   | (1.06-1.55)  | 0.01    | ref           |
| 60-69                    | 932/2343(40)| 843/2343(38)| 1.15   | (1.02-1.29)  | 0.02    | 0.34          |
| 70+                      | 1417/2278(62)| 1425/2278(63)| 1.08   | (0.99-1.17)  | 0.07    | 0.11          |
The Events/N (%) denotes the number of events of each outcome by the total number of participants, who are outcome free at diabetes diagnosis or matched calendar year, (percentage) in either diabetes or matched controls (MCs) stratified by three diabetes age-of-diagnosis groups. The total Ns are the same between the diabetes and MCs as they were designed by 1-1 propensity score matching. The hazard ratios (95% confident interval) between diabetes and MCs are estimated for each outcome and each age-of-diagnosis group incorporating respondent-level weights at the year of matching. For participants who had 0 or missing weights at the year of matching, the average sample weights across all year were used. Participants who had 0 or missing weights throughout were removed in the Cox models. The p-value column presents the p-values testing the corresponding HR of diabetes to the null hypothesis (HR=1). The interaction p-value column presents the p-value comparing the HR of diabetes of the corresponding age of diagnosis group to the HR of diabetes in the reference age of diagnosis group 50-59.
eFigure 3. The Stratified Analyses of Diabetes on Distal Outcomes Based on Insulin Use and Oral Medication Use

A. Insulin non-user and oral medication non-user

| Outcome                  | 50-59 Events/N(%) | 60-69 Events/N(%) | 70+ Events/N(%) | HR 95% CI | P value | Interaction P |
|--------------------------|-------------------|-------------------|----------------|-----------|---------|---------------|
| **Diabetes age-of-diagnosis** |                   |                   |                |           |         |               |
| Heart Disease            |                   |                   |                |           |         |               |
| 50-59                    | 18/77(23)         | 13/77(17)         |                | 1.81(0.91-3.81) | 0.09    | ref           |
| 60-69                    | 49/132(37)        | 27/132(20)        |                | 2.42(1.57-3.75) | <0.001  | 0.49          |
| 70+                      | 56/152(37)        | 44/152(29)        |                | 1.48(1.02-2.15) | 0.04    | 0.61          |
| Stroke                   |                   |                   |                |           |         |               |
| 50-59                    | 10/97(10)         | 7/97(7)           |                | 1.75(0.68-4.51) | 0.25    | ref           |
| 60-69                    | 25/137(18)        | 7/137(5)          |                | 4.13(1.82-9.37) | 0.001   | 0.18          |
| 70+                      | 34/197(17)        | 22/197(11)        |                | 1.72(1.01-2.91) | 0.04    | 0.98          |
| Disability               |                   |                   |                |           |         |               |
| 50-59                    | 7/91(8)           | 2/91(2)           |                | 4.7(1-22.11)    | 0.05    | ref           |
| 60-69                    | 13/140(9)         | 10/140(7)         |                | 1.46(0.65-3.29) | 0.36    | 0.19          |
| 70+                      | 32/202(16)        | 29/202(14)        |                | 1.33(0.62-2.17) | 0.25    | 0.13          |
| Cognitive Impairment     |                   |                   |                |           |         |               |
| 50-59                    | 13/98(13)         | 11/98(11)         |                | 2.03(0.89-4.61) | 0.09    | ref           |
| 60-69                    | 33/155(21)        | 19/155(12)        |                | 2.29(1.34-4.04) | 0.004   | 0.81          |
| 70+                      | 60/207(29)        | 55/207(27)        |                | 1.52(1.06-2.17) | 0.02    | 0.53          |
| Mortality                |                   |                   |                |           |         |               |
| 50-59                    | 9/50(10)          | 9/50(10)          |                | 1.87(0.74-4.73) | 0.19    | ref           |
| 60-69                    | 54/136(39)        | 35/138(25)        |                | 2.63(1.74-4.06) | <0.001  | 0.51          |
| 70+                      | 110/202(54)       | 93/202(46)        |                | 1.69(1.28-2.23) | <0.001  | 0.84          |

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### B. Insulin user

| Outcome                        | Events/N(%) | Events/N(%) | HR     | P value | Interaction P |
|--------------------------------|-------------|-------------|--------|---------|---------------|
|                                | Diabetes    | MC (Matched controls) | 95% CI |         |               |
| Diabetes age-of-diagnosis      |             |             |        |         |               |
| Heart Disease                  |             |             |        |         |               |
| 50-59                          | 131/419(31) | 93/419(22)  | 1.43(1.11-1.83) | 0.005   | ref           |
| 60-69                          | 118/374(32) | 120/374(32) | 0.92(0.72-1.17) | 0.51    | 0.01          |
| 70+                            | 68/263(28)  | 65/263(25)  | 1.02(0.74-1.4)  | 0.92    | 0.1           |
| Stroke                         |             |             |        |         |               |
| 50-59                          | 89/559(16)  | 64/559(11)  | 1.33(0.98-1.81) | 0.07    | ref           |
| 60-69                          | 90/583(15)  | 76/583(13)  | 1.13(0.84-1.52) | 0.43    | 0.45          |
| 70+                            | 71/433(16)  | 81/433(19)  | 0.83(0.61-1.13) | 0.24    | 0.04          |
| Disability                     |             |             |        |         |               |
| 50-59                          | 91/804(15)  | 57/804(9)   | 1.65(1.19-2.3)  | 0.003   | ref           |
| 60-69                          | 118/625(19) | 71/625(11)  | 1.71(1.29-2.28) | <0.001 | 0.88          |
| 70+                            | 119/446(27) | 119/446(27) | 0.99(0.78-1.25) | 0.94    | 0.01          |
| Cognitive Impairment           |             |             |        |         |               |
| 50-59                          | 92/588(16)  | 77/588(13)  | 1.19(0.88-1.61) | 0.25    | ref           |
| 60-69                          | 121/583(21) | 126/583(22) | 0.96(0.75-1.23) | 0.76    | 0.28          |
| 70+                            | 121/389(31) | 156/389(41) | 0.71(0.57-0.88) | 0.002   | 0.006         |
| Mortality                      |             |             |        |         |               |
| 50-59                          | 269/645(42) | 195/645(30) | 1.4(1.17-1.69)  | <0.001  | ref           |
| 60-69                          | 417/709(59) | 368/709(52) | 1.06(0.92-1.22) | 0.39    | 0.02          |
| 70+                            | 481/565(85) | 458/565(81) | 1.07(0.95-1.22) | 0.27    | 0.02          |

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C. Insulin non-user and oral medication user

| Outcome                  | Events/N(%) | Events/N(%) | HR     | 95% CI    | P value | Interaction P |
|--------------------------|-------------|-------------|--------|-----------|---------|---------------|
|                          | Diabetes    | MC (Matched controls) |        |           |         |               |
| Diabetes age-of-diagnosis| 50-59       | 161/657(25) | 93/657(14) | 1.84(1.44-2.36) | <0.001  | ref           |
|                          | 60-69       | 298/1101(27)| 235/1101(21) | 1.33(1.12-1.56) | 0.001   | 0.03          |
|                          | 70+         | 236/888(27) | 213/888(24) | 1.15(0.96-1.37) | 0.12    | 0.002         |
| Heart Disease            | 50-59       | 79/723(11)  | 38/723(5)  | 2.18(1.49-3.19) | <0.001  | ref           |
|                          | 60-69       | 155/1362(11)| 108/1362(8) | 1.45(1.14-1.84) | 0.003   | 0.08          |
|                          | 70+         | 178/1271(14)| 168/1271(13)| 1.07(0.87-1.32) | 0.5     | 0.001         |
| Stroke                   | 50-59       | 57/733(8)   | 19/733(3)  | 3.09(1.85-5.16) | <0.001  | ref           |
|                          | 60-69       | 128/1427(9) | 118/1427(8) | 1.27(0.99-1.64) | 0.06    | 0.002         |
|                          | 70+         | 279/1437(19)| 280/1437(19)| 1.03(0.88-1.21) | 0.68    | <0.001        |
| Disability               | 50-59       | 77/730(11)  | 70/730(10) | 1.35(0.97-1.88) | 0.07    | ref           |
|                          | 60-69       | 164/1363(14)| 222/1363(16)| 1.07(0.88-1.3)  | 0.5     | 0.23          |
|                          | 70+         | 328/1277(26)| 336/1277(26)| 1.12(0.97-1.3)  | 0.13    | 0.31          |
| Cognitive Impairment     | 50-59       | 168/734(23) | 120/734(16) | 1.57(1.25-1.99) | <0.001  | ref           |
|                          | 60-69       | 461/1431(32)| 440/1431(31)| 1.04(0.91-1.19) | 0.54    | 0.003         |
|                          | 70+         | 825/1462(56)| 874/1462(60)| 1.03(0.93-1.13) | 0.6     | 0.001         |
The figures are separately for A) insulin non-user and oral medication non-user; B) insulin user; C) insulin non-user and oral medication user. The Events/N (%) denotes the number of events of each outcome by the total number of participants, who are outcome free at diabetes diagnosis or matched calendar year, (percentage) in either diabetes or matched controls (MCs) stratified by three diabetes age-of-diagnosis groups. The total Ns are the same between the diabetes and MCs as they were designed by 1-1 propensity score matching. The hazard ratios (95% confident interval) between diabetes and MCs are estimated for each outcome and each age-of-diagnosis group. The p-value column presents the p-values testing the corresponding HR of diabetes to the null hypothesis (HR=1). The interaction p-value column presents the p-value comparing the HR of diabetes of the corresponding age of diagnosis group to the HR of diabetes in the reference age of diagnosis group 50-59.
eFigure 4. The Hazard Ratios of Diabetes on Distal Outcomes Against Continuous Age-at-Diagnosis
The solid line denotes the hazard ratios (HRs) of diabetes on outcome and grey area denotes the corresponding 95% confident intervals. The dash line represents the null hypothesis (HR=1).
### Table 1: Demographic Characteristics of Diabetes and Diabetes-Free Participants at the Year of Diabetes/Baseline

|                      | Overall       | Diabetes       | Diabetes-free  | P value<sup>a</sup> |
|----------------------|---------------|----------------|----------------|--------------------|
| N                    | 36060         | 7739           | 28321          |                    |
| Gender: Female, No. (%) | 20388 (56.5) | 4267 (55.1)    | 16121 (56.9)   | 0.01               |
| Race/Ethnicity, No. (%) |               |                |                | <0.01              |
| Hispanic             | 2330 (6.5)    | 726 (9.4)      | 1604 (5.7)     |                    |
| Non-Hispanic Black   | 6480 (18.0)   | 1730 (22.4)    | 4750 (16.8)    |                    |
| Non-Hispanic White   | 25310 (70.3)  | 4891 (63.3)    | 20419 (72.2)   |                    |
| Other<sup>b</sup>    | 1893 (5.3)    | 383 (5.0)      | 1510 (5.3)     |                    |
| Education, No. (%)   |               |                |                | <0.01              |
| <12                  | 9525 (26.5)   | 2682 (34.8)    | 6843 (24.2)    |                    |
| =12                  | 11197 (31.1)  | 2425 (31.4)    | 8772 (31.1)    |                    |
| >12                  | 15233 (42.4)  | 2610 (33.8)    | 12623 (44.7)   |                    |
| Cohort, No. (%)<sup>c</sup> |           |                |                | <0.01              |
| AHEAD                | 6666 (18.5)   | 1394 (18.0)    | 5272 (18.6)    |                    |
| CODA                 | 3674 (10.2)   | 765 (9.9)      | 2909 (10.3)    |                    |
| HRS                  | 9450 (26.2)   | 2960 (38.2)    | 6490 (22.9)    |                    |
| WB                   | 3330 (9.2)    | 850 (11.0)     | 2480 (8.8)     |                    |
| BB                   | 12940 (35.9)  | 1770 (22.9)    | 11170 (39.4)   |                    |
| At the year of diabetes onset/matching |         |                |                |                    |
| Age, mean (SD), y    | 62.89 (10.81)| 67.42 (9.88)   | 61.66 (10.72)  | <0.01              |
| Marital status: Not Married or live alone, No. (%) | 11453 (31.8) | 2805 (36.2) | 8648 (30.5) | <0.01 |
| Wealth, $, No. (%)   |               |                |                | <0.01              |
| <40K                 | 19266 (53.4)  | 4963 (64.1)    | 14303 (50.5)   |                    |
| 40~150K              | 13832 (38.4)  | 2420 (31.3)    | 11412 (40.3)   |                    |
| 150~300K             | 2271 (6.3)    | 280 (3.6)      | 1991 (7.0)     |                    |
| >=300K               | 691 (1.9)     | 76 (1.0)       | 615 (2.2)      |                    |
| BMI (median [IQR])<sup>d</sup> | 26.60 [23.70, 30.60] | 29.10 [25.70, 33.00] | 26.30 [23.20, 29.70] | <0.01 |
| Heart disease, No. (%) | 6845 (19.0)   | 2584 (33.4)    | 4261 (15.0)    | <0.01              |
| Stroke, No. (%)      | 2207 (6.1)    | 901 (11.6)     | 1306 (4.6)     | <0.01              |
| Lung disease, No. (%) | 3363 (9.3)    | 1012 (13.1)    | 2351 (8.3)     | <0.01              |
| Cancer, No. (%)      | 3638 (10.1)   | 1076 (13.9)    | 2562 (9.0)     | <0.01              |
| Arthritis, No. (%)   | 16608 (46.1)  | 4851 (62.7)    | 11757 (41.5)   | <0.01              |
| Cognition impairment, No. (%) |         |                |                | <0.01              |
| Normal               | 28504 (79.0)  | 5579 (72.1)    | 22925 (80.9)   |                    |

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|                  | Minor impairment | Severe impairment | During follow-up |
|------------------|------------------|------------------|------------------|
| Minor impairment | 5490 (15.2)      | 1454 (18.8)      | 4036 (14.3)      |
| Severe impairment| 2066 (5.7)       | 706 (9.1)        | 1360 (4.8)       |
| Death            | 13826 (38.3)     | 3555 (45.9)      | 10271 (36.3)     | <0.01 |
| Follow-up        | 12 [6, 22]       | 20 [8, 26]       | 8 [4, 20]        | <0.01 |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates.
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range
### Table 2. Demographic Characteristics of Each Diabetes Age-at-Diagnosis Group and Its Matched Control Group at the Year of Diabetes Diagnosis/Matching

#### A. Outcome: Heart Disease

|                  | 50-59 | 60-69 | 70+  |
|------------------|-------|-------|------|
|                  | Diabetes | MC  | P value<sup>a</sup> | Diabetes | MC  | P value<sup>a</sup> | Diabetes | MC  | P value<sup>a</sup> |
| N before matching| 1224   | 2832 | 1690 | 2832 | 1358 | 2832 |
| N after matching | 1182   | 1182 | 1657 | 1657 | 1333 | 1333 |
| Gender: Female, No. (%) | 731 (61.8) | 703 (59.5) | 874 (52.7) | 874 (52.7) | 779 (52.7) | 744 (55.8) |
| Race/Ethnicity, No. (%) | | | | | | | | | |
| Hispanic | 186 (15.7) | 188 (15.9) | 182 (11.0) | 158 (9.5) | 105 (7.9) | 88 (6.6) |
| Non-Hispanic Black | 323 (27.3) | 291 (24.6) | 399 (24.1) | 398 (24.0) | 258 (19.4) | 267 (20.0) |
| Non-Hispanic White | 584 (49.4) | 619 (52.4) | 997 (60.2) | 1014 (61.2) | 924 (69.3) | 936 (70.2) |
| Other<sup>b</sup> | 89 (7.5) | 84 (7.1) | 79 (4.8) | 87 (5.3) | 46 (3.5) | 42 (3.2) |
| Education, No. (%) | | | | | | | | | |
| <12 | 347 (29.4) | 328 (27.7) | 548 (33.1) | 537 (32.4) | 518 (38.9) | 507 (38.0) |
| =12 | 361 (30.5) | 399 (33.8) | 530 (32.0) | 542 (32.7) | 430 (32.3) | 438 (32.9) |
| >12 | 474 (40.1) | 455 (38.5) | 579 (34.9) | 578 (34.9) | 385 (28.9) | 388 (29.1) |
| Cohort, No. (%) | | | | | | | | | |
| AHEAD | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 575 (43.1) | 570 (42.8) |
| CODA | 0 (0) | 0 (0) | 103 (6.2) | 99 (6.0) | 279 (20.9) | 272 (20.4) |
| HRS | 358 (30.3) | 367 (31.0) | 960 (57.9) | 968 (58.4) | 423 (31.7) | 436 (32.7) |
| WB | 220 (18.6) | 222 (18.8) | 245 (14.8) | 230 (13.9) | 56 (4.2) | 55 (4.1) |
| BB | 604 (51.1) | 593 (50.2) | 349 (21.1) | 360 (21.7) | 0 (0) | 0 (0) |

<sup>a</sup>At the year of diabetes onset/matching

|                  | 50-59 | 60-69 | 70+ |
|------------------|-------|-------|-----|
| Age, mean (SD), y | 55.55 (2.78) | 55.54 (2.60) | 55.54 (2.57) |
| Marital status: Not married or live alone, No. (%) | 288 (24.4) | 260 (22.0) | 491 (29.6) |
| Wealth, $, No. (%) | 0.59 | 0.81 | 0.82 |

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|       | <40K | 40~150K | 150~300K | >=300K |
|-------|------|---------|----------|--------|
|       | 602  | 515     | 54       | 11     |
|       | (50.9)| (43.6)  | (4.6)    | (0.9)  |
|       | 582  | 541     | 52       | 7      |
|       | (49.2)| (45.8)  | (4.4)    | (0.6)  |
|       | 946  | 628     | 65       | 18     |
|       | (57.1)| (37.9)  | (3.9)    | (1.1)  |
|       | 932  | 631     | 76       | 18     |
|       | (56.2)| (38.1)  | (4.6)    | (1.1)  |
|       | 998  | 293     | 34       | 8      |
|       | (74.9)| (22.0)  | (2.6)    | (0.6)  |
|       | 1014 | 279     | 30       | 10     |
|       | (76.1)| (20.9)  | (2.3)    | (0.8)  |
|                      | WBB (median) | 27.40 | 27.10 | 27.50 | 27.20 |
|----------------------|--------------|-------|-------|-------|-------|
| [IQR]d               | [26.60,      | 26.60 | 26.60 | 24.70 | 24.40 |
|                      | 33.90]       | 33.30] | 32.30] | 30.70] | 30.80] |
|                      | 0.10         | 0.10  | 0.10  | 0.30  | 0.33  |
| Stroke, No. (%)      | 40 (3.4)     | 28 (2.4) | 102 (6.2) | 87 (5.3) | 145 (10.9) | 135 (10.1) |
| Lung disease, No. (%)| 86 (7.3)     | 80 (6.8) | 145 (8.8) | 149 (9.0) | 105 (7.9) | 94 (7.1) |
| Cancer, No. (%)      | 67 (5.7)     | 63 (5.3) | 171 (10.3) | 180 (10.9) | 224 (16.8) | 220 (16.5) |
| Arthritis, No. (%)   | 576 (48.7)   | 565 (47.8) | 1029 (62.1) | 1027 (62.0) | 848 (63.6) | 831 (62.3) |
| Cognition impairment, No. (%) | 986 (83.4) | 970 (82.1) | 1299 (78.4) | 1296 (78.2) | 853 (64.0) | 858 (64.4) |
| Normal               | 165 (14.0)   | 187 (15.8) | 286 (17.3) | 300 (18.1) | 324 (24.3) | 321 (24.1) |
| Minor impairment     | 31 (2.6)     | 25 (2.1) | 72 (4.3) | 61 (3.7) | 156 (11.7) | 154 (11.6) |
| Severe impairment    |              |       |       |       |       |       |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates.
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range
## Supplementary Table 2B. Outcome: Stroke

|                 | 50-59         | 60-69         | 70+          |
|-----------------|---------------|---------------|--------------|
|                 | Diabetes | MC | P value a | Diabetes | MC | P value a | Diabetes | MC | P value a |
| N before matching | 1458        | 28321 |           | 2182        | 28321 |           | 1970 | 28321 |           |
| N after matching | 1412        | 1412 | 0.46      | 2142        | 2142 | 0.03      | 1944 | 1944 | 0.27      |
| Gender: Female, No. (%) | 868 (61.5) | 848 (60.1) | 0.46 | 1121 (52.3) | 1049 (49.0) | 0.03 | 1085 (55.8) | 1120 (57.6) | 0.27 |
| Race/Ethnicity, No. (%) |           |           | 0.59 |           | 0.89 |           | 0.99 |         |           |
| Hispanic        | 204 (14.4) | 209 (14.8) | 0.59 | 205 (9.6) | 197 (9.2) | 0.89 | 124 (6.4) | 123 (6.3) | 0.99 |
| Non-Hispanic Black | 373 (26.4) | 363 (25.7) | 0.88 | 495 (23.1) | 506 (23.6) | 0.88 | 322 (16.6) | 314 (16.2) | 0.88 |
| Non-Hispanic White | 738 (52.3) | 759 (53.8) | 0.96 | 1347 (62.9) | 1352 (63.1) | 0.96 | 1440 (74.1) | 1448 (74.5) | 0.96 |
| Other b         | 97 (6.9) | 81 (5.7) |           | 95 (4.4) | 87 (4.1) |           | 58 (3.0) | 59 (3.0) |           |
| Education, No. (%) |           |           | 0.10 |           | 0.73 |           | 0.88 |         |           |
| <12             | 417 (29.5) | 377 (26.7) | 0.10 | 710 (33.1) | 686 (32.0) | 0.73 | 735 (37.8) | 721 (37.1) | 0.88 |
| =12             | 440 (31.2) | 488 (34.6) | 0.96 | 684 (31.9) | 693 (32.4) | 0.88 | 626 (32.2) | 638 (32.8) | 0.96 |
| >12             | 555 (39.3) | 547 (38.7) | 0.96 | 748 (34.9) | 763 (35.6) | 0.96 | 583 (30.0) | 585 (30.1) | 0.96 |
| Cohort, No. (%) c |           |           | 0.75 |           | 0.80 |           | 0.99 |         |           |
| AHEAD           | 0 (0) | 0 (0) |           | 0 (0) | 0 (0) |           | 850 (43.7) | 854 (43.9) |           |
| CODA            | 0 (0) | 0 (0) |           | 135 (6.3) | 145 (6.8) | 0.81 | 402 (20.7) | 405 (20.8) |           |
| HRS             | 443 (31.4) | 460 (32.6) |           | 1261 (58.9) | 1261 (58.9) | 0.81 | 619 (31.8) | 618 (31.8) |           |
| WB              | 261 (18.5) | 263 (18.6) |           | 327 (15.3) | 308 (14.4) | 0.81 | 73 (3.8) | 67 (3.4) |           |
| BB              | 708 (50.1) | 689 (48.8) |           | 419 (19.6) | 428 (20.0) | 0.81 | 73 (3.8) | 67 (3.4) |           |
| Age, mean (SD), y | 55.58 (2.75) | 55.90 (2.45) | 0.00 | 64.20 (2.79) | 64.22 (2.74) | 0.81 | 76.82 (5.24) | 76.88 (5.26) | 0.74 |
| Marital status: Not Married or live alone, No. (%) | 352 (24.9) | 345 (24.4) | 0.05 | 635 (29.6) | 591 (27.6) | 0.15 | 863 (44.4) | 878 (45.2) | 0.65 |
| Wealth, $, No. (%) |           |           | 0.51 |           | 0.59 |           | 0.99 |         |           |
| <40K            | 726 (51.4) | 714 (50.6) |           | 1243 (58.0) | 1263 (59.0) |           | 1436 (73.9) | 1428 (73.5) |           |
| 40–150K         | 609 (43.1) | 630 (44.6) |           | 792 (37.0) | 786 (36.7) |           | 449 (23.1) | 455 (23.4) |           |
| 150–300K        | 64 (4.5) | 61 (4.3) |           | 87 (4.1) | 71 (3.3) |           | 46 (2.4) | 48 (2.5) |           |
| >=300K          | 13 (0.9) | 7 (0.5) |           | 20 (0.9) | 22 (1.0) |           | 13 (0.7) | 13 (0.7) |           |

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| BMI (median [IQR]) | 27.80 | 27.50 | 0.42 | 27.90 | 27.30 [26.60, 32.10] | 0.02 | 27.70 | 27.30 [24.40, 31.20] | 0.07 |
|-------------------|-------|-------|------|-------|---------------------|------|-------|---------------------|------|
| [26.60, 0.02]     | 33.73 | 33.60 | 32.30|       |         | 31.10 |       |                     |      |
| Heart disease, No. (%) | 270 (19.1) | 274 (19.4) | 0.89 | 587 (27.4) | 574 (26.8) | 0.68 | 756 (38.9) | 748 (38.5) | 0.82 |
| Lung disease, No. (%) | 148 (10.5) | 153 (10.8) | 0.81 | 256 (12.0) | 254 (11.9) | 0.96 | 222 (11.4) | 233 (12.0) | 0.62 |
| Cancer, No. (%)     | 100 (7.1) | 98 (6.9) | 0.94 | 233 (10.9) | 241 (11.3) | 0.73 | 364 (18.7) | 374 (19.2) | 0.71 |
| Arthritis, No. (%)  | 720 (51.0) | 716 (50.7) | 0.91 | 1385 (64.7) | 1337 (62.4) | 0.14 | 1307 (67.2) | 1299 (66.8) | 0.81 |
| Cognition impairment, No. (%) | 0.85 | 0.93 | 0.57 |     |        |       |                     |      |
| Normal             | 1174 (83.1) | 1172 (83.0) | 1695 (79.1) | 1705 (79.6) |       | 1275 (65.6) | 1296 (66.7) |     |
| Minor impairment   | 201 (14.2) | 207 (14.7) | 359 (16.8) | 351 (16.4) |       | 471 (24.2) | 469 (24.1) |     |
| Severe impairment  | 37 (2.6) | 33 (2.3) | 88 (4.1) | 86 (4.0) |       | 198 (10.2) | 179 (9.2) |     |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range
## Supplementary Table 2C. Outcome: Disability

|                      | 50-59       |          | 60-69       |          | 70+        |          |
|----------------------|-------------|----------|-------------|----------|-----------|----------|
|                      | Diabetes    | MC       | P valuea    | Diabetes | MC       | P valuea |
| N before matching    | 1509        | 28321    |             | 2318     | 28321    |          |
| N after matching     | 1462        | 1462     |             | 2257     | 2257     |          |
| Gender: Female, No.  | 892 (61.0)  | 858 (58.7)| 0.21        | 1172     | 1128 (50.0)| 0.20     |
| (%)                  |             | (51.9)   |             |          | (54.4)   |          |
| Race/Ethnicity, No.  |             |          |             |          |          |          |
| Hispanic             | 207 (14.2)  | 212 (14.5)| 0.99        | 1419     | 1442 (63.9)| 0.38     |
| Non-Hispanic Black   | 393 (26.9)  | 398 (27.2)|             | 526 (23.3)| 536 (23.7)|          |
| Non-Hispanic White   | 760 (52.0)  | 751 (51.4)|             | 1419     | 1442 (63.9)|          |
| Otherb               | 102 (7.0)   | 101 (6.9)|             | 79 (3.5) | 61 (2.9)  | 60 (2.8) |
| Education, No. (%)   | 0.16        |          | 0.40        |          | 0.98      |          |
| <12                  | 438 (30.0)  | 410 (28.0)|             | 722 (32.0)| 752 (33.3)|          |
| =12                  | 458 (31.3)  | 506 (34.6)|             | 721 (35.9)| 802 (35.5)|          |
| >12                  | 566 (38.7)  | 546 (37.3)|             | 791 (35.0)| 641 (30.1)|          |
| Cohort, No. (%)c     | 0.89        |          | 0.76        |          | 0.88      |          |
| AHEAD                | 0 (0)       | 0 (0)    |             | 0 (0)    | 0 (0)     | 919 (43.1)| 916 (42.9)|
| CODA                 | 0 (0)       | 0 (0)    |             | 141 (6.2)| 153 (6.8)| 452 (21.2)| 472 (22.1)|
| HRS                  | 472 (32.3)  | 479 (32.8)|             | 1328     | 1331 (59.0)|          |
| WB                   | 274 (18.7)  | 264 (18.1)|             | 351 (15.6)| 330 (14.6)|          |
| BB                   | 716 (49.0)  | 719 (49.2)|             | 437 (19.4)| 443 (19.6)|          |
| Marital status: Not Married or live alone, No. (%) | 367 (25.1) | 348 (23.8) | 0.44 | 678 (30.0) | 681 (30.2) | 0.95 | 936 (43.9) | 976 (45.8) |
| Wealth, $, No. (%)   | 0.66        |          | 0.85        |          | 0.83      |          |
| <40K                 | 766 (52.4)  | 750 (51.3)|             | 1321     | 1320 (58.5)| 1574 (73.8)| 1589 (74.5)|
| 40~150K              | 618 (42.3)  | 645 (44.1)|             | 826 (36.6)| 814 (36.1)| 492 (23.1)| 474 (22.2)|

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| Income Level | BMI (median [IQR]) | Heart disease, No. (%) | Stroke, No. (%) | Lung disease, No. (%) | Cancer, No. (%) | Arthritis, No. (%) | Cognition impairment, No. (%) |
|--------------|--------------------|------------------------|----------------|----------------------|----------------|--------------------|-----------------------------|
| 150~300K     | 65 (4.4)           | 302 (20.7)             | 158 (10.8)     | 748 (51.2)           | 352 (22.6)     | 748 (51.2)         | 1221 (83.9)                 |
| >=300K       | 13 (0.9)           | 294 (20.1)             | 74 (5.1)       | 96 (6.6)             | 96 (6.6)       | 711 (48.6)         | 1226 (83.9)                 |
|              | 89 (3.9)           | 647 (28.7)             | 169 (7.5)      | 245 (10.9)           | 1462 (64.5)    | 0.18               | 1226 (83.9)                 |
|              | 99 (4.4)           | 608 (26.9)             | 154 (6.8)      | 239 (10.6)           | 1455 (64.5)    | 0.01               | 1803 (79.9)                 |
|              | 52 (2.4)           | 871 (40.8)             | 268 (12.6)     | 409 (19.2)           | 1429 (67.0)    | 0.70               | 1418 (66.5)                 |
|              | 51 (2.4)           | 900 (42.2)             | 279 (13.1)     | 401 (18.8)           | 1451 (68.0)    | 0.79               | 1412 (66.2)                 |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates.
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range
## Supplementary Table 2D. Outcome: Severe Cognitive Impairment

|                  | 50-59 | 60-69 | 70+  |
|------------------|-------|-------|------|
|                  | Diabetes | MC | P value<sup>a</sup> | Diabetes | MC | P value<sup>a</sup> | Diabetes | MC | P value<sup>a</sup> |
| N before matching| 1495 | 28321 | | 2207 | 28321 | | 1937 | 28321 | |
| N after matching | 1450 | 1450 | | 2165 | 2165 | | 1915 | 1915 | |
| Gender: Female, No. (%) | 885 (61.0) | 862 (59.4) | 0.40 | 1123 (51.9) | 1098 (50.7) | 0.47 | 1039 (54.3) | 1049 (54.8) | 0.77 |
| Race/Ethnicity, No. (%) | | | | | | | | |
| Hispanic | 200 (13.8) | 205 (14.1) | 199 (9.2) | 185 (8.5) | 105 (5.5) | 110 (5.7) |
| Non-Hispanic Black | 390 (26.9) | 365 (25.2) | 471 (21.8) | 497 (23.0) | 266 (13.9) | 242 (12.6) |
| Non-Hispanic White | 761 (52.5) | 793 (54.7) | 1399 (64.6) | 1398 (64.6) | 1493 (78.0) | 1519 (79.3) |
| Other<sup>b</sup> | 99 (6.8) | 87 (6.0) | 96 (4.4) | 85 (3.9) | 51 (2.7) | 44 (2.3) |
| Education, No. (%) | | | | | | | | |
| <12 | 422 (29.1) | 433 (29.9) | 662 (30.6) | 635 (29.3) | 614 (32.1) | 627 (32.7) |
| =12 | 455 (31.4) | 463 (31.9) | 707 (32.7) | 720 (33.3) | 672 (35.1) | 651 (34.0) |
| >12 | 573 (39.5) | 554 (38.2) | 796 (36.8) | 810 (37.4) | 629 (32.8) | 637 (33.3) |
| Cohort, No. (%)<sup>c</sup> | | | | | | | | |
| AHEAD | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 817 (42.7) | 806 (42.1) |
| CODA | 0 (0) | 0 (0) | 138 (6.4) | 154 (7.1) | 402 (21.0) | 408 (21.3) |
| HRS | 470 (32.4) | 498 (34.3) | 1262 (58.3) | 1239 (57.2) | 624 (32.6) | 630 (32.9) |
| WB | 275 (19.0) | 240 (16.6) | 337 (15.6) | 326 (15.1) | 72 (3.8) | 71 (3.7) |
| BB | 705 (48.6) | 712 (49.1) | 428 (19.8) | 446 (20.6) | 0 (0) | 0 (0) |

### At the year of diabetes onset/matching

| Age, mean (SD), y | 55.58 (2.76) | 55.67 (2.59) | 55.67 (2.59) |
|-------------------|--------------|--------------|--------------|
| Marital status: Not Married or live alone, No. (%)<sup>d</sup> | 361 (24.9) | 361 (24.9) | 629 (29.1) |
| Wealth, $, No. (%)<sup>e</sup> | 361 (24.9) | 629 (29.1) | 630 (29.1) |

| Wealth, $, No. (%)<sup>e</sup> | 361 (24.9) | 629 (29.1) | 630 (29.1) |
|---------------------------------|-------------|-------------|-------------|
| <40K | 751 (51.8) | 765 (52.8) | 1243 (57.4) |
| 40~150K | 621 (42.8) | 612 (42.2) | 812 (37.5) |
| 150~300K | 65 (4.5) | 59 (4.1) | 89 (4.1) |
| >=300K | 13 (0.9) | 14 (1.0) | 21 (1.0) |

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| BMI (median [IQR]) | 27.40 | 27.20 | 0.21 | 27.90 | 27.40 | 0.14 | 27.60 | 27.40 | 0.37 |
|--------------------|-------|-------|------|-------|-------|------|-------|-------|------|
| [26.60, 26.60]    | [26.60, 26.60] | [26.60, 26.60] | [24.90, 24.70] | [26.60, 26.60] | [26.60, 26.60] | [24.90, 24.70] | [26.60, 26.60] | [26.60, 26.60] | [24.90, 24.70] |
| Heart disease, No. (%) | 33.70 | 33.50 | 32.30 | 32.30 | 31.00 | 30.90 | 31.00 | 30.90 | 31.00 |
| Stroke, No. (%) | 307 (21.2) | 303 (20.9) | 0.89 | 621 (28.7) | 585 (27.0) | 0.24 | 791 (41.3) | 785 (41.0) | 0.87 |
| Lung disease, No. (%) | 88 (6.1) | 84 (5.8) | 0.81 | 160 (7.4) | 152 (7.0) | 0.68 | 231 (12.1) | 223 (11.6) | 0.73 |
| Cancer, No. (%) | 157 (10.8) | 162 (11.2) | 0.81 | 279 (12.9) | 277 (12.8) | 0.96 | 233 (12.2) | 232 (12.1) | 1.00 |
| Arthritis, No. (%) | 98 (6.8) | 96 (6.6) | 0.94 | 244 (11.3) | 231 (10.7) | 0.56 | 375 (19.6) | 380 (19.8) | 0.87 |
| Cancer, No. (%) | 244 (11.3) | 231 (10.7) | 0.56 | 375 (19.6) | 380 (19.8) | 0.87 | 1407 (65.0) | 1370 (63.3) | 0.25 |
| Arthritis, No. (%) | 742 (51.2) | 729 (50.3) | 0.66 | 1407 (65.0) | 1370 (63.3) | 0.25 | 1286 (67.2) | 1305 (68.1) | 0.53 |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range
Supplementary Table 2E. Outcome: All-cause mortality

|                  | 50-59                  | 60-69                  | 70+                    |
|------------------|------------------------|------------------------|------------------------|
|                  | Diabetes MC P valuea   | Diabetes MC P valuea   | Diabetes MC P valuea   |
| N before matching| 1552 28321             | 2388 28321             | 2310 28321             |
| N after matching | 1504 1504              | 2343 2343              | 2278 2278              |
| Gender: Female, No. (%) | 923 (61.4) 0.33 | 1227 (52.4) 0.15 | 1261 (54.9) 0.77 |
| Race/Ethnicity, No. (%) |                      | (55.4)                |                        |
| Hispanic         | 214 (14.2) 0.86        | 224 (9.6) 0.25        | 138 (6.1) 0.59         |
| Non-Hispanic Black | 411 (27.3) 1.00 | 556 (23.7) 0.14 | 391 (17.2) 0.73 |
| Non-Hispanic White | 774 (51.5) 0.62 | 1461 (62.4) 0.14 | 1683 (74.4) 0.73 |
| Otherb           | 105 (7.0) 0.62         | 88 (3.8) 0.73         | 66 (2.9) 0.73          |
| Education, No. (%) |                        | 0.55                   | 0.66                   | 0.72                   |
| <12              | 458 (30.5) 0.62        | 791 (33.8) 0.25        | 873 (38.3) 0.73        |
| =12              | 465 (30.9) 0.55        | 743 (31.7) 0.14        | 739 (32.4) 0.73        |
| >12              | 581 (38.6) 0.14        | 809 (34.5) 0.14        | 666 (29.2) 0.73        |
| Cohort, No. (%)c | 0.55                   | 0.66                   | 0.72                   |
| AHEAD            | 0 (0)                  | 0 (0)                  | 1009 (44.2)            |
| CODA             | 0 (0)                  | 0 (0)                  | 475 (20.9)             |
| HRS              | 483 (32.1) 0.16        | 1374 (58.6) 0.71      | 494 (21.7)             |
| WB               | 282 (18.8) 0.16        | 334 (14.3) 0.20        | 70 (3.1)               |
| BB               | 739 (49.1) 0.16        | 473 (20.2) 0.04        | 0 (0)                  |
| At the year of diabetes onset/matching |                      |                       |                        |
| Age, mean (SD), y | 55.59 (2.75) 0.25 | 64.21 (2.78) 0.94 | 77.09 (5.28) 0.47 |
| Marital status: Not Married or live alone, No. (%) | 381 (25.3) 0.01 | 672 (28.7) 0.30 | 1059 (46.5) 0.48 |
| Wealth, $, No. (%) |                        | 0.83                   | 0.52                   | 0.91                   |
| <40K             | 801 (53.3) 0.63        | 1402 (59.8) 0.94       | 1710 (76.0)            |

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|        | 40~150K | 625 (41.6) | 645 (42.9) | 831 (35.5) | 853 (36.4) | 500 (21.9) | 483 (21.2) |
|--------|----------|------------|------------|------------|------------|------------|------------|

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| BMI | 150-300K | >=300K | Heart disease, No. (%) | Stroke, No. (%) | Lung disease, No. (%) | Cancer, No. (%) | Arthritis, No. (%) | Cognition impairment, No. (%) |
|-----|----------|--------|------------------------|----------------|---------------------|---------------|-------------------|-----------------------------|
|     | 65 (4.3) | 10 (0.7) | 21 (0.9) | 27.50 [26.60, 27.40] | 65 (4.3) | 21 (0.9) | 27.90 | 322 (21.4) | 92 (6.1) |
|     | 89 (3.8) | 17 (0.7) | 17 (0.7) | 27.40 | [26.60, 26.60] | 65 (4.3) | 104 (4.4) | 323 (21.5) | 76 (5.1) | 168 (11.2) | 103 (6.8) | 782 (52.0) | 0.43 | 1235 (82.1) | 228 (15.2) | 41 (2.7) |
|     | 53 (2.3) | 15 (0.7) | 15 (0.7) | 27.30 | [26.60, 26.60] | 65 (4.3) | 104 (4.4) | 32.30 | 201 (8.6) | 171 (11.4) | 83 (5.5) | 771 (51.3) | 0.61 | 1259 (83.7) | 203 (13.5) | 42 (2.8) |
|     | 50 (2.2) | 14 (0.6) | 14 (0.6) | 27.30 | [26.60, 26.60] | 65 (4.3) | 104 (4.4) | 32.10 | 165 (7.0) | 304 (13.0) | 10 (0.7) | 14 (0.6) | 0.03 | 1807 (77.1) | 406 (17.3) | 119 (5.1) |

a. P values are from ANOVA or rank sum test (for BMI) for comparing continuous covariates and the chi-square test for comparing categorical covariates.
b. Other race/ethnicity includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander, other race or unknown.
c. HRS included six birth cohorts: the Study of Assets and Health Dynamics Among the Oldest Old (AHEAD) cohort, born prior to 1924; the Children of the Depression (CODA) cohort, born 1924 to 1930; the original HRS cohort, born 1931 to 1941; the War Baby (WB) cohort, born 1942 to 1947; the Early Baby Boomer (EBB) cohort, born 1948 to 1953; and the Middle Baby Boomer (MBB) cohort, born 1954 to 1959.
d. BMI: body mass index, IQR: Interquartile range