Table A:  Subdistribution hazard regression for mild cognitive impairment/dementia: univariable analyses.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS**# | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.08(1.06, 1.10) | 1.09(1.08, 1.10) | 1.16(1.14,1.18) | 1.10(1.06, 1.15) |
| **Male sex** | 1.36(1.16,1.60) | 0.83(0.74, 0.93) | 0.89(0.76, 1.04) | 0.90(0.61,1.13) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 1.51 (1.27, 1.78) | 1.64(1.46, 1.84) | 1.57(1.32, 1.88) | 2.23(1.45, 3.43) |
| 2 e4 | 2.79 (1.98, 3.92) | 2.63(2.02, 3.42) | 3.30(2.08, 5.22) | 3.57 (1.19, 10.70) |
| **Education (reference: High school)** |  |  |  |  |
| Less than high school | 1.86(1.24, 2.80) | 1.41(1.21, 1.64) | 1.80(1.46, 2.22) | 1.54(0.86, 2.75) |
| Some college | 0.83(0.62, 1.11) | 0.81(0.71, 0.93) | 1.05(0.85, 1.29) | 0.99(0.41, 2.39) |
| College graduation | 0.85(0.67, 1.06) | 0.56(0.46, 0.69) | 0.76(0.60, 0.96) | 1.37(0.62, 3.02) |
| **Standardized cognitive screening test score, per SD**‡ | 0.62(0.57, 0.66) | 1.00(0.95, 1.06) | 0.80(0.76, 0.85) | 0.58(0.52, 0.65) |
| **Subjective memory concerns** | 2.62(2.22, 3.08) | 1.71(1.53, 1.91) | N/A | N/A |
| **Family History of dementia** | 1.16(0.98, 1.37) | 1.27(1.11, 1.44) | N/A | N/A |
| **Vascular risk score, (reference: Moderate)**$ |  |  |  |  |
| Low | 0.74(0.60, 0.90) | 0.88(0.65, 1.20) | 1.36(1.13, 1.63) | 0.53(0.17, 1.68) |
| High | 1.05(0.98, 1.37) | 0.97(0.85, 1.12) | 0.83(0.63, 1.11) | 1.44(0.98, 2.12) |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

‡MMSE for NACC, the Rotterdam Study, and the Framingham Heart Study; in SALSA, the 3MS was used; all tests standardized *within* the sample in question.

$Vascular risk score was calculated based on a count of standard risk factors, see text for details.

3MS, Modified Mini-Mental State Examination; MMSE, Mini-Mental State Examination; N/A, not available; NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.

Table B:  Subdistribution hazard regression fordementia:  univariable analyses.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS**# | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.22(1.13, 1.32) | 1.12(1.10, 1.14) | 1.16(1.14, 1.19) | 1.19(1.11, 1.28) |
| **Male sex** | 1.26(0.73,2.17) | 0.68(0.59, 0.79) | 0.78(0.65, 0.93) | 0.84(0.47,1.49) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 1.98 (1.11, 3.53) | 2.07(1.79, 2.40) | 1.66(1.36, 2.02) | 3.42(1.87, 6.24) |
| 2 e4 | 8.37 (3.89, 18.02) | 4.88(3.61, 6.59) | 3.19(1.86, 5.45) | 5.82 (1.53, 22.13) |
| **Education (reference: High school)** |  |  |  |  |
| Less than high school | 3.35(1.09, 10.31) | 1.34(1.10, 1.62) | 1.70(1.35, 2.15) | 1.57(0.67, 3.69) |
| Some college | 0.89(0.34, 2.37) | 0.82(0.69, 0.97) | 0.95(0.75, 1.21) | 0.82(0.20, 3.25) |
| College graduation | 0.86(0.40, 1.85) | 0.64(0.49, 0.84) | 0.71(0.54, 0.93) | 0.80(0.20, 3.20) |
| **Standardized cognitive screening test score, per SD**‡ | 0.69(0.59, 0.80) | 0.90(0.83, 0.96) | 0.82(0.77, 0.88) | 0.50(0.43, 0.59) |
| **Subjective memory complaints** | 1.68(0.96, 2.95) | 1.47(1.28, 1.69) | N/A | N/A |
| **Family history of dementia** | 1.57(0.87, 2.85) | 1.44(1.22, 1.69) | N/A | N/A |
| **Vascular risk score (reference level: Moderate)**$ |  |  |  |  |
| Low | 0.80(0.42, 1.50) | 0.83(0.56, 1.24) | 1.33(1.08, 1.64) | 0.52(0.17, 1.63) |
| High | 0.60(0.24, 1.53) | 0.78(0.65, 0.95) | 0.82(0.59, 1.13) | 1.40(0.95, 2.06) |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

‡MMSE for NACC, the Rotterdam Study, and the Framingham Heart Study; in SALSA, the 3MS was used; all tests standardized *within* the sample in question.

$Vascular risk score was calculated based on a count of standard risk factors, see text for details.

3MS, Modified Mini-Mental State Examination; MMSE, Mini-Mental State Examination; N/A, not available; NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.

Table C: Subdistribution hazard regression analyses for mild cognitive impairment/dementia; *APOE* and demographics.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS**# | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.08(1.06, 1.10) | 1.09(1.07, 1.10) | 1.15(1.13, 1.17) | 1.10(1.05, 1.14) |
| **Male sex** | 1.40(1.19,1.65) | 0.92(0.82, 1.04) | 0.96(0.81, 1.13) | 0.85(0.57,1.26) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 1.58 (1.33, 1.87) | 1.65(1.47, 1.85) | 1.72(1.43, 2.07) | 2.26(1.47, 3.48) |
| 2 e4 | 3.35 (2.39, 4.69) | 2.89(2.21, 3.77) | 4.10(2.42, 6.97) | 4.13(1.38, 12.40) |
| **Education (reference: High school)** |  |  |  |  |
| Less than high school | 1.85(1.23, 2.79) | 1.20(1.03, 1.41) | 1.44(1.16, 1.78) | 1.39(0.77, 2.49) |
| Some college | 0.86(0.64, 1.15) | 0.83(0.73, 0.95) | 1.07(0.87, 1.33) | 0.96(0.40, 2.32) |
| College graduation | 0.83(0.66, 1.04) | 0.61(0.49, 0.76) | 0.83(0.65, 1.06) | 1.41(0.63, 3.15) |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.

Table D: Subdistribution hazard regression analyses for dementia: *APOE* and demographics.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS**# | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.24(1.15, 1.35) | 1.12(1.10, 1.14) | 1.15(1.12, 1.18) | 1.19(1.11, 1.27) |
| **Male sex** | 1.33(0.78,2.27) | 0.72(0.62, 0.84) | 0.84(0.69, 1.02) | 0.80(0.45,1.44) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 2.21(1.23, 3.96) | 2.11(1.81, 2.45) | 1.86(1.52, 2.29) | 3.44(1.89, 6.27) |
| 2 e4 | 11.91(5.45, 26.00) | 5.60(4.10, 7.66) | 3.91(2.13, 7.16) | 7.23 (1.85, 28.29) |
| **Education (reference: High school)** |  |  |  |  |
|   Less than high school | 3.87(1.22, 11.89) | 1.11(0.91, 1.36) | 1.38(1.08, 1.75) | 1.31(0.57, 3.03) |
|   Some college | 1.00(0.38, 2.66) | 0.88(0.74, 1.05) | 0.95(0.74, 1.21) | 0.72(0.18, 2.90) |
|   College graduation | 0.89(0.41, 1.91) | 0.78(0.59, 1.03) | 0.77(0.58, 1.02) | 0.83(0.21, 3.23) |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.

Table E: Subdistribution hazard regression analyses for mild cognitive impairment /dementia: *APOE*, demographics, cognition, and family history.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS#** | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.08(1.05, 1.10) | 1.08(1.07, 1.09) | 1.15(1.12, 1.17) | 1.07(1.03, 1.12) |
| **Male sex** | 1.14(0.96,1.36) | 0.92(0.81, 1.03) | 0.93(0.79, 1.10) | 0.84(0.56,1.25) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 1.49 (1.25, 1.79) | 1.63(1.44, 1.84) | 1.75(1.45, 2.10) | 2.15(1.39, 3.33) |
| 2 e4 | 2.37 (1.59, 3.53) | 2.78(2.10, 3.69) | 4.01(2.31, 6.96) | 1.65 (0.27, 9.93) |
| **Education (reference: High school)** |  |  |  |  |
| Less than high school | 1.41(0.91, 2.19) | 1.24(1.06, 1.46) | 1.33(1.06, 1.65) | 0.80(0.43, 1.49) |
| Some college | 0.90(0.66, 1.22) | 0.83(0.72, 0.95) | 1.10(0.89, 1.36) | 1.01(0.42, 2.43) |
| College graduation | 0.92(0.73, 1.16) | 0.62(0.50, 0.77) | 0.87(0.69, 1.11) | 1.61(0.72, 3.62) |
| **Standardized cognitive screening test score, per SD** ‡ | 0.63(0.58, 0.69) | 1.08(1.02, 1.15) | 0.87(0.82, 0.93) | 0.59(0.52, 0.67) |
| **Subjective memory concerns** | 2.23(1.87, 2.66) | 1.56(1.39, 1.74) | N/A | N/A |
| **Family history of dementia**§ | 1.27(1.06, 1.52) | 1.16(1.01, 1.32) | N/A | N/A |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

‡ MMSE for NACC, the Rotterdam Study, and the Framingham Heart Study; in SALSA, the 3MS was used; all tests standardized *within* the sample in question.

§Family history of dementia was not available in the SALSA and Framingham Heart Study cohorts.

3MS, Modified Mini-Mental State Examination; MMSE, Mini-Mental State Examination; N/A, not available; NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.

Table F: Subdistribution hazard regression analyses for dementia*: APOE*, demographics, cognition, and family history.

|  |  |
| --- | --- |
| **Characteristic** | **Cohort** |
| **NACC** | **RS** | **FHS**# | **SALSA** |
|  | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** | **Hazard ratio****(95% CI)** |
| **Age (years) at baseline visit** | 1.24(1.14, 1.34) | 1.11(1.09, 1.13) | 1.14(1.12, 1.17) | 1.14(1.07, 1.22) |
| **Male sex** | 1.18(0.65, 2.15) | 0.72(0.61, 0.85) | 0.81(0.67, 0.99)  | 0.79(0.44, 1.42) |
| ***APOE*-e4 dose (reference: 0 e4)** |  |  |  |  |
| 1 e4 | 2.39 (1.30, 4.39) | 2.09(1.79, 2.44) | 1.90(1.54, 2.33) | 3.46(1.92, 6.23) |
| 2 e4 | 8.39 (3.28, 21.44) | 5.31(3.85, 7.34) | 3.90(2.11, 7.22) | 1.97 (0.19, 20.93) |
| **Education (reference: High school)** |  |  |  |  |
| Less than high school | 3.76(1.17, 12.06) | 1.08(0.88, 1.33) | 1.28(1.00, 1.63) | 0.63(0.26, 1.55) |
| Some college | 1.14(0.43, 3.06) | 0.87(0.73, 1.04) | 0.97(0.76, 1.24) | 0.69(0.17, 2.91) |
| College graduation | 0.89(0.40, 1.98) | 0.76(0.57, 1.02) | 0.81(0.61, 1.07) | 0.97(0.25, 3.78) |
| **Standardized cognitive screening test score, per SD** ‡ | 0.73(0.59, 0.90) | 0.96(0.89, 1.04) | 0.88(0.83, 0.94) | 0.53(0.43, 0.66) |
| **Subjective memory concerns** | 1.06(0.56, 1.99) | 1.25(1.08, 1.44) | N/A | N/A |
| **Family history of dementia**§ | 1.83(0.96, 3.50) | 1.29(1.09, 1.52) | N/A | N/A |

#For FHS, first visit after age 60 with available MMSE was used as the baseline.

‡ MMSE for NACC, the Rotterdam Study, and the Framingham Heart Study; in SALSA, the 3MS was used; all tests standardized *within* the sample in question.

§Family history of dementia was not available in the SALSA and Framingham Heart Study cohorts.

3MS, Modified Mini-Mental State Examination; MMSE, Mini-Mental State Examination; N/A, not available; NACC, National Alzheimer’s Coordinating Center; RS, Rotterdam Study; FHS, Framingham Heart Study; SALSA, Sacramento Area Latino Study on Aging.