MELODEM Workshop Paper Results

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## Table 1: Participant characteristics

| **Characteristic** | **Overall** | **Apolipoprotein E** | |
| --- | --- | --- | --- |
| **Non-carrier** | **Carrier** |
| REGARDS | | | |
| No. of participants | 5,381 |  |  |
| Age | 64 (59, 70) |  |  |
| Sex |  |  |  |
| male | 2,121 (39%) |  |  |
| female | 3,260 (61%) |  |  |
| simulated | | | |
| No. of participants | 974 | 503 | 471 |
| Age | 65.0 (61.5, 68.4) | 65.1 (61.9, 68.4) | 64.9 (61.4, 68.3) |
| Sex |  |  |  |
| male | 463 (48%) | 236 (47%) | 227 (48%) |
| female | 511 (52%) | 267 (53%) | 244 (52%) |
| WHICAP | | | |
| No. of participants | 3,819 | 2,756 | 1,063 |
| Age | 72.3 (69.7, 75.7) | 72.3 (69.7, 75.7) | 72.3 (69.5, 75.5) |
| Sex |  |  |  |
| male | 1,330 (35%) | 965 (35%) | 365 (34%) |
| female | 2,489 (65%) | 1,791 (65%) | 698 (66%) |

## Table 2: Heterogeneity in the effect of APOE-4 on dementia risk using time since birth

| **Age, years** | **Estimated effect of APOE-4 on dementia-free survival time, years** | **P-value for heterogeneity in effect** | **Best linear projection of effect** | |
| --- | --- | --- | --- | --- |
| **Women versus men** | **Age, per year** |
| REGARDS | | | | |
| 60 | 0.45 (-0.04, 0.93) | 0.05 | -1.6 (-2.6, -0.66) |  |
| 65 | 0.43 (0.00, 0.87) | 0.31 | -1.6 (-2.5, -0.67) |  |
| 70 | 0.31 (-0.08, 0.70) | 0.47 | -1.1 (-1.9, -0.25) |  |
| 75 | -0.50 (-0.84, -0.16) | 0.049 | -0.66 (-1.4, 0.04) |  |
| simulated | | | | |
| 60 | -1.7 (-2.5, -0.88) | 0.22 | 0.14 (-1.5, 1.8) |  |
| 65 | -4.3 (-4.9, -3.7) | 0.96 | -0.08 (-1.2, 1.1) |  |
| 70 | -7.3 (-7.7, -6.8) | 0.88 | 0.05 (-0.92, 1.0) |  |
| WHICAP | | | | |
| 70 | -0.07 (-0.37, 0.23) | 0.18 | -0.44 (-1.1, 0.19) | 0.23 (-0.08, 0.54) |
| 75 | -0.21 (-0.45, 0.03) | 0.24 | -0.25 (-0.74, 0.23) | 0.20 (-0.05, 0.45) |

## Table 3: Heterogeneity in the effect of APOE-4 on dementia risk using time since baseline

| **Time since baseline visit, years** | **Estimated effect of APOE-4 on dementia-free survival time, years** | **P-value for heterogeneity in effect** | **Best linear projection of effect** | |
| --- | --- | --- | --- | --- |
| **Age, per year** | **Women versus men** |
| REGARDS | | | | |
| 5.0 | 0.10 (-0.13, 0.33) | 0.28 | 0.36 (0.14, 0.59) | -0.76 (-1.2, -0.30) |
| 10 | -0.24 (-0.46, -0.03) | 0.71 | -0.02 (-0.25, 0.21) | -0.09 (-0.54, 0.35) |
| simulated | | | | |
| 0.70 | -0.47 (-0.58, -0.35) | 0.67 | 0.04 (-0.08, 0.15) | 0.10 (-0.14, 0.33) |
| WHICAP | | | | |
| 5.0 | 0.17 (-0.81, 1.1) | 0.83 | 0.29 (-0.70, 1.3) | -0.90 (-3.0, 1.2) |
| 10 | -0.23 (-1.3, 0.89) | 0.92 | 0.43 (-0.69, 1.5) | -1.4 (-3.9, 1.1) |
| 15 | -0.81 (-1.8, 0.22) | 0.84 | -0.49 (-1.5, 0.51) | -0.34 (-2.6, 1.9) |

## Cumulative incidence of dementia stratified by study

