# Main Analysis: Hazard ratios for incidence Stroke

|  | **ENMO** | **Random Forest and HMM** |
| --- | --- | --- |
| **Characteristic** | **HR** **(95% CI)**1 | **HR** **(95% CI)**1 |
| **MVPA Quartile** |  |  |
| [0.167,319] | — |  |
| (319,464] | 0.76 (0.68 to 0.85) |  |
| (464,641] | 0.72 (0.64 to 0.81) |  |
| (641,2.39e+03] | 0.64 (0.56 to 0.74) |  |
| **Sex** |  |  |
| Female | — | — |
| Male | 2.64 (2.39 to 2.92) | 2.82 (2.54 to 3.12) |
| **Age** | 1.06 (1.06 to 1.07) | 1.07 (1.06 to 1.08) |
| **Race** |  |  |
| Nonwhite | — | — |
| White | 0.89 (0.68 to 1.18) | 0.92 (0.70 to 1.21) |
| **Deprivation index** |  |  |
| Quarter 1 | — | — |
| Quarter 2 | 1.05 (0.93 to 1.19) | 1.05 (0.93 to 1.19) |
| Quarter 3 | 1.02 (0.90 to 1.15) | 1.02 (0.90 to 1.16) |
| Quarter 4 | 1.01 (0.89 to 1.15) | 1.02 (0.90 to 1.16) |
| **Education** |  |  |
| None of the above | — | — |
| O levels/GCSEs or equivalent, CSEs or equivalent | 0.96 (0.83 to 1.12) | 0.97 (0.84 to 1.13) |
| A levels/AS, NVQ/HND/HNC or equivalent | 0.90 (0.77 to 1.04) | 0.92 (0.79 to 1.07) |
| College or University degree | 0.81 (0.69 to 0.94) | 0.84 (0.72 to 0.98) |
| **Household Income** |  |  |
| Less than 18,000 | — | — |
| 18,000 to 30,999 | 0.85 (0.75 to 0.98) | 0.85 (0.75 to 0.98) |
| 31,000 to 51,999 | 0.89 (0.78 to 1.03) | 0.89 (0.78 to 1.03) |
| 52,000 to 100,000 | 0.74 (0.63 to 0.87) | 0.75 (0.64 to 0.88) |
| Greater than 100,000 | 0.71 (0.55 to 0.91) | 0.72 (0.56 to 0.93) |
| Do not know/Prefer not to answer | 0.84 (0.71 to 1.01) | 0.84 (0.70 to 1.00) |
| **Smoking** |  |  |
| Never | — | — |
| Previous | 1.14 (1.04 to 1.26) | 1.13 (1.03 to 1.25) |
| Current | 1.71 (1.46 to 1.99) | 1.70 (1.45 to 1.98) |
| **Alcohol** |  |  |
| Never | — | — |
| Less than once a week | 0.85 (0.70 to 1.03) | 0.85 (0.70 to 1.03) |
| Once or twice a week | 0.85 (0.70 to 1.02) | 0.85 (0.70 to 1.03) |
| Three or four times a week | 0.77 (0.63 to 0.93) | 0.77 (0.64 to 0.94) |
| Daily or almost daily | 0.67 (0.55 to 0.82) | 0.67 (0.55 to 0.82) |
| **Processed meat** |  |  |
| Less than 2 times a week | — | — |
| 2-4 times a week | 1.02 (0.92 to 1.12) | 1.02 (0.93 to 1.13) |
| More than 4 times a week | 0.95 (0.77 to 1.18) | 0.96 (0.77 to 1.19) |
| **Fresh fruit** |  |  |
| Less than 2 servings a day | — | — |
| Between 2 and 4 servings a day | 0.92 (0.84 to 1.01) | 0.92 (0.84 to 1.02) |
| More than 4 servings a day | 0.93 (0.78 to 1.12) | 0.94 (0.78 to 1.12) |
| **Cooked vegetables** |  |  |
| Less than 2 servings a day | — | — |
| Between 2 and 4 servings a day | 0.96 (0.85 to 1.08) | 0.96 (0.85 to 1.08) |
| More than 4 servings a day | 0.98 (0.82 to 1.17) | 0.98 (0.82 to 1.17) |
| **Oily fish** |  |  |
| Less than 2 times a week | — | — |
| 2-4 times a week | 1.26 (1.13 to 1.40) | 1.26 (1.13 to 1.40) |
| More than 4 times a week | 1.05 (0.67 to 1.64) | 1.05 (0.67 to 1.64) |
| **Non-oily fish** |  |  |
| Less than 2 times a week | — | — |
| 2-4 times a week | 1.08 (0.95 to 1.22) | 1.08 (0.96 to 1.22) |
| More than 4 times a week | 0.97 (0.50 to 1.87) | 0.96 (0.50 to 1.86) |
| **Type II Diabetes** |  |  |
| No | — | — |
| Yes | 0.60 (0.51 to 0.70) | 0.59 (0.51 to 0.70) |
| **Body Mass Index** |  |  |
| Underweight (< 18.5 kg/m2) | — | — |
| Normal (18.5 kg/m2 to < 25 kg/m2) | 1.16 (0.48 to 2.81) | 1.15 (0.48 to 2.78) |
| Overweight (25 kg/m2 to < 30 kg/m2) | 1.51 (0.62 to 3.63) | 1.50 (0.62 to 3.62) |
| Obesity Class I, II or III (> 30 kg/m2) | 1.88 (0.78 to 4.54) | 1.87 (0.77 to 4.51) |
| **MVPA Quartile** |  |  |
| [0,115] |  | — |
| (115,234] |  | 0.76 (0.68 to 0.86) |
| (234,404] |  | 0.71 (0.62 to 0.80) |
| (404,2.47e+03] |  | 0.63 (0.56 to 0.72) |
| 1HR = Hazard Ratio, CI = Confidence Interval | | |

# Main Analysis: Hazard ratios for incidence MI

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| **Sex** |  |  |
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| Male | 2.64 (2.39 to 2.92) | 2.82 (2.54 to 3.12) |
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| **Race** |  |  |
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| **Education** |  |  |
| None of the above | — | — |
| O levels/GCSEs or equivalent, CSEs or equivalent | 0.96 (0.83 to 1.12) | 0.97 (0.84 to 1.13) |
| A levels/AS, NVQ/HND/HNC or equivalent | 0.90 (0.77 to 1.04) | 0.92 (0.79 to 1.07) |
| College or University degree | 0.81 (0.69 to 0.94) | 0.84 (0.72 to 0.98) |
| **Household Income** |  |  |
| Less than 18,000 | — | — |
| 18,000 to 30,999 | 0.85 (0.75 to 0.98) | 0.85 (0.75 to 0.98) |
| 31,000 to 51,999 | 0.89 (0.78 to 1.03) | 0.89 (0.78 to 1.03) |
| 52,000 to 100,000 | 0.74 (0.63 to 0.87) | 0.75 (0.64 to 0.88) |
| Greater than 100,000 | 0.71 (0.55 to 0.91) | 0.72 (0.56 to 0.93) |
| Do not know/Prefer not to answer | 0.84 (0.71 to 1.01) | 0.84 (0.70 to 1.00) |
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| **Alcohol** |  |  |
| Never | — | — |
| Less than once a week | 0.85 (0.70 to 1.03) | 0.85 (0.70 to 1.03) |
| Once or twice a week | 0.85 (0.70 to 1.02) | 0.85 (0.70 to 1.03) |
| Three or four times a week | 0.77 (0.63 to 0.93) | 0.77 (0.64 to 0.94) |
| Daily or almost daily | 0.67 (0.55 to 0.82) | 0.67 (0.55 to 0.82) |
| **Processed meat** |  |  |
| Less than 2 times a week | — | — |
| 2-4 times a week | 1.02 (0.92 to 1.12) | 1.02 (0.93 to 1.13) |
| More than 4 times a week | 0.95 (0.77 to 1.18) | 0.96 (0.77 to 1.19) |
| **Fresh fruit** |  |  |
| Less than 2 servings a day | — | — |
| Between 2 and 4 servings a day | 0.92 (0.84 to 1.01) | 0.92 (0.84 to 1.02) |
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| **Cooked vegetables** |  |  |
| Less than 2 servings a day | — | — |
| Between 2 and 4 servings a day | 0.96 (0.85 to 1.08) | 0.96 (0.85 to 1.08) |
| More than 4 servings a day | 0.98 (0.82 to 1.17) | 0.98 (0.82 to 1.17) |
| **Oily fish** |  |  |
| Less than 2 times a week | — | — |
| 2-4 times a week | 1.26 (1.13 to 1.40) | 1.26 (1.13 to 1.40) |
| More than 4 times a week | 1.05 (0.67 to 1.64) | 1.05 (0.67 to 1.64) |
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| Less than 2 times a week | — | — |
| 2-4 times a week | 1.08 (0.95 to 1.22) | 1.08 (0.96 to 1.22) |
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