**Supplemental Digital Content 3. Hazard ratio of coronary heart disease according to physical activity and genetic score categories including only eight validated SNPs**

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|  | **HR for 500 kcal/week increase in physical activity** |
| **Subgroup defined by:** | **# events** | **Age- and treatment-adjusted** **HR (95% CI)** | **Multivariable HR** **(95% CI)\*** |
| All women | 320 | 0.85 (0.79, 0.92) | 0.88 (0.82, 0.95) |
| Fitness genetic score |  |  |  |
| 1st quartile: < 8.90 | 77 | 0.89 (0.77, 1.03) | 0.93 (0.80, 1.07) |
| 2nd quartile: 8.90 – 10.01 | 93 | 0.67 (0.56, 0.79) | 0.69 (0.58, 0.82) |
| 3rd quartile: 10.02 – 11.05 | 76 | 0.80 (0.68, 0.93) | 0.83 (0.71, 0.97) |
| 4th quartile: > 11.05 | 74 | 1.06 (0.93, 1.22) | 1.10 (0.96, 1.26) |
| *P* for interaction |  | 0.02 | 0.02 |

\*Adjusted for age; randomized treatment assignment; smoking status; consumption of alcohol, saturated fat, fiber, fruits, and vegetables; menopausal status; postmenopausal hormone use; parental history of MI.