**Supplementary Table 1.** Hazard ratios (HR) with 95% confidence intervals (CI) for hip fracture per daily glass of milk across BMI categories in the study populations from the Norwegian Counties Study (1985-88) and the Five Counties Study (2000-02)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Per 1 glass milk/day** |
|  |  | **BMI, kg/m2** | **N** | **n hip fractures** | **Person-years of follow-up** | **HR (95% CI) \*** | **p \*** | **HR (95% CI) †** | **p †** |
| Norwegian Counties Study | Men | <24  | 4,951 | 196 | 83,927 | 0.98 (0.89, 1.08) | 0.70 | 1.03 (0.88, 1.08) | 0.61 |
| 24-27 | 6,663 | 223 | 115,092 | 0.94 (0.86, 1.04) | 0.22 | 0.95 (0.85, 1.05) | 0.28 |
| ≥27 | 5,561 | 184 | 92,315 | 0.99 (0.89, 1.09) | 0.79 | 1.01 (0.90, 1.12) | 0.94 |
| Pinteraction ‡ |  |  |  | 0.74 |  | 0,80 |  |
| Women | <24  | 7,501 | 551 | 135,240 | 1.08 (1.00, 1.16) | 0.043 | 1.05 (0.97, 1.13) | 0.21 |
| 24-27 | 5,085 | 357 | 92,254 | 1.00 (0.91, 1.11) | 0.96 | 1.00 (0.90, 1.11) | 0.96 |
| ≥27 | 5,353 | 354 | 94,189 | 0.98 (0.88, 1.08) | 0.62 | 0.96 (0.87, 1.07) | 0.47 |
| Pinteraction ‡ |  |  |  | 0.13 |  | 0.19 |  |
|  |  |  |  |  |  |  |  |  |  |
| Five Counties Study | Men | <24  | 2,015 | 157 | 20,162 | 0.97 (0.84, 1.11) | 0.65 | 0.96 (0.83, 1.10) | 0.54 |
| 24-27 | 3,618 | 160 | 38,893 | 1.05 (0.92, 1.19) | 0.49 | 1.05 (0.92, 1.19) | 0.46 |
| ≥27 | 5,169 | 156 | 55,821 | 0.98 (0.86, 1.12) | 0.80 | 0.98 (0.86, 1.12) | 0.78 |
| Pinteraction ‡ |  |  |  | 0.48 |  | 0.49 |  |
| Women | <24 | 3,466 | 379 | 37,821 | 1.09 (0.99, 1.19) | 0.07 | 1.09 (0.99, 1.19) | 0.07 |
| 24-27 | 3,450 | 263 | 38,615 | 1.02 (0.91, 1.14) | 0.76 | 1.03 (0.92, 1.15) | 0.59 |
| ≥27 | 5,541 | 351 | 61,685 | 0.95 (0.86, 1.05) | 0.31 | 0.95 (0.86, 1.05) | 0.31 |
| Pinteraction ‡ |  |  |  | 0.060 |  | 0.052 |  |

\* Adjusted for county, body mass index (continuous) and smoking (five categories)

† Adjusted for county, body mass index (continuous), smoking (five categories), body height (continuous), number of self-reported chronic diseases among the options: myocardial infarction, angina, stroke, diabetes, treated hypertension (continuous), regular use of vitamin supplement (yes/no), regular use of cod liver oil supplement (yes/no), physical inactivity (inactive, active, missing), marital status (married, single, missing), energy intake (increasing quartiles and one missing category, Norwegian Counties study only), use of acid suppressing drugs (yes/no, Five Counties Study only), self-rated health (poor /not very good /good /very good /missing, Five Counties only), attained educational level (five increasing categories and one missing category, education level in 1990 in the Norwegian Counties study; education level in 2001 in the Five Counties Study)

‡ Interacton term for glasses of milk per day and BMI (continuous) in Cox regression