**Supplementary Table 1. Odds ratios and 95% confidence intervals of CRC according to *quartiles* of dietary selenium intake stratified by** **anatomical site**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Selenium (μg/day)** | **No. of controls (%)** | **Proximal colon cancer** | **Distal colon cancer** | **Rectal cancer** |
| **No. of cases (%)** | **OR (95% CI)a** | **No. of cases (%)** | **OR (95% CI)a** | **No. of cases (%)** | **OR (95% CI)a** |
| ***Total (n=4260)*** |  |  |  |  |  |  |  |
|  Q1 (<37.06) | 710 (25.0) | 151 (34.6) | 1.00 | 169 (36.6) | 1.00 | 221 (43.8) | 1.00 |
|  Q2 (37.06–49.18) | 710 (25.0) | 119 (27.3) | 0.90 (0.67-1.18) | 136 (29.4) | 0.88 (0.67-1.16) | 161 (31.9) | 0.84 (0.65-1.09) |
|  Q3 (49.18–61.88) | 710 (25.0) | 94 (21.6) | 0.82 (0.61-1.12) | 83 (18.0) | **0.59 (0.43-0.80)** | 78 (15.5) | **0.44 (0.32-0.60)** |
|  Q4 (≥61.88) | 710 (25.0) | 71 (16.5) | **0.61 (0.44-0.85)** | 74 (16.0) | **0.51 (0.37-0.71)** | 45 (8.8) | **0.26 (0.18-0.37)** |
|   *P* for trend |  |  | **0.003** |  | **<0.001** |  | **<0.001** |
| ***Males (n=2748)*** |  |  |  |  |  |  |  |
|  Q1 (<36.12) | 458 (25.0) | 82 (30.3) | 1.00 | 102 (36.2) | 1.00 | 154 (43.6) | 1.00 |
|  Q2 (36.12–48.12) | 458 (25.0) | 82 (30.3) | 1.18 (0.82-1.70) | 90 (31.9) | 0.99 (0.71-1.39) | 110 (31.2) | 0.85 (0.62-1.17) |
|  Q3 (48.12–60.73) | 458 (25.0) | 63 (23.3) | 1.13 (0.76-1.67) | 48 (17.0) | **0.62 (0.42-0.93)** | 59 (16.7) | **0.52 (0.36-0.75)** |
|  Q4 (≥60.73) | 458 (25.) | 44 (16.2) | 0.73 (0.47-1.12) | 42 (14.9) | **0.51 (0.34-0.77)** | 30 (8.5) | **0.25 (0.16-0.40)** |
|  *P* for trend |  |  | 0.129 |  | **<0.001** |  | **<0.001** |
| ***Females (n=1512*)** |  |  |  |  |  |  |  |
|  Q1 (<39.81) | 252 (25.0) | 64 (38.8) | 1.00 | 65 (36.1) | 1.00 | 74 (48.7) | 1.00 |
|  Q2 (39.81–51.39) | 252 (25.0) | 40 (24.2) | 0.73 (0.46-1.17) | 52 (28.9) | 0.91 (0.58-1.43) | 46 (30.3) | 0.70 (1.44-1.12) |
|  Q3 (51.39–65.92) | 252 (25.0) | 36 (21.8) | 0.73 (0.45-1.18) | 36 (20.0) | 0.64 (0.39-1.04) | 18 (11.8) | **0.28 (0.15-0.51)** |
|  Q4 (≥65.92) | 252 (25.0) | 25 (15.2) | **0.55 (0.32-0.94)** | 27 (15.0) | 0.58 (0.34-1.00) | 14 (9.2) | **0.27 (0.14-0.51)** |
|  *P* for trend |  |  | **0.031** |  | 0.022 |  | **<0.001** |
|  *P* heterogeneity *b* |  |  | **<0.001** |  | 0.486 |  | 0.279 |

*aadjusted for age, BMI, first-degree family history of CRC, regular, exercise, smoking status, alcohol consumption, occupation, education, and income. In the total subjects, model 2 was additionally adjusted for sex.*

*btest for differences between males and females.*