

S4 Table. Association between genetic risk score and the risk of colorectal cancer, stratified by age^{a)}

| Genetic risk score | < 50 Years | | | ≥ 50 Years | | |
|--------------------|-----------------------|-------------------|--|--------------------|-------------------|--|
| | No. of controls/cases | Crude OR (95% CI) | Multivariate OR (95% CI) ^{b)} | No. controls/cases | Crude OR (95% CI) | Multivariate OR (95% CI) ^{b)} |
| Unweighted | | | | | | |
| ≤ 11 | 57/16 | 1.0 (reference) | 1.0 (reference) | 216/64 | 1.0 (reference) | 1.0 (reference) |
| 12-16 | 164/70 | 1.52 (0.82-2.83) | 1.60 (0.83-3.09) | 578/271 | 1.58 (1.16-2.17) | 1.74 (1.23-2.46) |
| ≥ 17 | 70/55 | 2.80 (1.45-5.40) | 3.21 (1.59-6.47) | 210/156 | 2.51 (1.77-3.55) | 2.82 (1.91-4.16) |
| Weighted | | | | | | |
| T1 | 70/18 | 1.0 (reference) | 1.0 (reference) | 253/80 | 1.0 (reference) | 1.0 (reference) |
| T2 | 133/61 | 1.78 (0.98-3.25) | 1.94 (1.02-3.67) | 514/231 | 1.42 (1.06-1.91) | 1.43 (1.03-1.98) |
| T3 | 88/62 | 2.74 (1.49-5.05) | 3.04 (1.58-5.82) | 237/180 | 2.40 (1.75-3.30) | 2.47 (1.73-1.98) |

OR, odds ratio; CI, confidence interval; T, tertile; SNP, single nucleotide polymorphism. ^{a)}Genetic risk score was calculated using 13 SNPs, ^{b)}Adjusted for sex, family history of colorectal cancer, education, obesity, physical activity, smoking, alcohol consumption, and dietary inflammatory index.