**S3 Table. Population-attributable risk estimates for colorectal cancer incidence and mortality with endoscopic screening alone and endoscopic screening-healthy lifestyle\* combination and the corresponding age-adjusted prevalence, stratified by family history of colorectal cancer, regular aspirin use, age, and sex**

|  |  |  |  |
| --- | --- | --- | --- |
| Stratifying factor |  | Prevalence | % PAR (95% CI)† |
|  | Endoscopic screening | Endoscopic screening & healthy lifestyle | Endoscopic screening | Endoscopic screening & healthy lifestyle |
| Colorectal cancer incidence |  |  |  |  |  |
|  Family history of colorectal cancer | No | 39 | 8 | 33 (32-35) | 49 (41-56) |
| Yes | 52 | 10 | 28 (25-31) | 46 (30-59) |
|  Regular aspirin use‡ | No | 39 | 8 | 33 (31-35) | 51 (43-58) |
| Yes | 47 | 9 | 29 (22-36) | 40 (22-55) |
|  Age | ≤65 years | 28 | 6 | 39 (32-45) | 52 (37-64) |
| 66-75 years | 52 | 10 | 34 (28-39) | 54 (43-64) |
| >75 years | 62 | 13 | 21 (15-27) | 34 (18-49) |
|  Sex | Female  | 37 | 6 | 29 (23-34) | 47 (36-57) |
| Male | 49 | 11 | 34 (30-39) | 50 (38-61) |
| Colorectal cancer mortality |  |  |  |  |  |
|  Family history of colorectal cancer | No | 39 | 6 | 33 (27-39) | 56 (36-71) |
| Yes | 52 | 8 | 39 (31-46) | 53 (14-77) |
|  Regular aspirin use‡ | No | 39 | 6 | 33 (27-38) | 57 (37-71) |
| Yes | 47 | 7 | 40 (31-49) | 49 (5-77) |
|  Age | ≤65 years | 28 | 4 | 45 (30-59) | 69 (40-85) |
| 66-75 years | 52 | 8 | 39 (30-47) | 71 (43-87) |
| >75 years | 62 | 10 | 25 (17-33) | 51 (25-70) |
|  Sex | Female  | 37 | 5 | 31 (23-38) | 62 (37-79) |
| Male | 49 | 9 | 36 (29-42) | 46 (19-66) |

Abbreviations: PAR, population-attributable risk; CI, confidence interval; CRC, colorectal cancer.

\*Healthy lifestyle was defined as a healthy lifestyle score of ≥4 in the analyses of both incidence and mortality. Healthy lifestyle score (range, 0-5) was defined as the number of the 5 healthy lifestyle factors: normal body weight (body mass index, ≥18.5 and <25.0 kg/m2), never smoking or past smoking with pack-years <5, moderate-to-vigorous intensity activity for ≥30 minutes per day, none-to-moderate alcohol intake (<1 drink [14g alcohol]/d for women and <2 drinks/d for men), and meeting at least 3 of the 6 dietary recommendations by the World Cancer Research Fund/American Institute for Cancer Research Third Expert Report 2018, which included red meat <0.5 serving/d, processed meat <0.2 serving/d, dietary fiber ≥30 g/d, dairy products ≥3 servings/d, whole grains ≥48 g/d or account for at least half of total grains, and calcium supplement use.

†PARs and 95% CIs were calculated while adjusting for age, calendar period, sex, ethnicity, current multivitamins use, regular aspirin use, family history of colorectal cancer, menopausal status and hormone use (women only) in incidence analysis and additionally diagnoses of cardiovascular disease and type 2 diabetes in mortality analysis.

‡Regular aspirin use was defined as use ≥2 tablets of standard aspirin per week.