

S1 Table. Associations between active smoking and the risk of papillary thyroid cancer stratified by passive smoking exposure status

| | No exposure to passive smoking | | | | Exposure to passive smoking with childhood exposure | | | | Exposure to passive smoking without childhood exposure | | | |
|--|--------------------------------|---------------------------|---------------------|---------------------------|---|---------------------------|---------------------|---------------------------|--|---------------------------|---------------------|---------------------------|
| | Men ^{a)} | | Women ^{a)} | | Men ^{a)} | | Women ^{a)} | | Men ^{a)} | | Women ^{a)} | |
| | Cases/Controls | OR ^{b)} (95% CI) | Cases/Controls | OR ^{b)} (95% CI) | Cases/Controls | OR ^{b)} (95% CI) | Cases/Controls | OR ^{b)} (95% CI) | Cases/Controls | OR ^{b)} (95% CI) | Cases/Controls | OR ^{b)} (95% CI) |
| Active smoking status | | | | | | | | | | | | |
| Never | 51/474 | 1.00 | 728/8,492 | 1.00 | 15/111 | 1.00 | 238/1,972 | 1.00 | 63/521 | 1.00 | 190/1,562 | 1.00 |
| Past | 90/931 | 0.78 (0.51-1.19) | 12/135 | 0.97 (0.51-1.85) | 27/216 | 0.91 (0.30-2.78) | 4/43 | 1.09 (0.26-4.60) | 8/65 | 0.76 (0.29-1.98) | 23/194 | 1.04 (0.68-3.93) |
| Current | 15/661 | 0.22 (0.12-0.43) | 6/210 | 0.31 (0.13-0.73) | 36/328 | 0.92 (0.36-2.39) | 9/145 | 0.61 (0.22-1.69) | 11/118 | 0.75 (0.38-1.46) | 34/355 | 0.80 (0.54-2.30) |
| Cumulative smoking dose (pack-year) | | | | | | | | | | | | |
| Never-smoker | 51/474 | 1.00 | 728/8,492 | 1.00 | 15/111 | 1.00 | 238/1,972 | 1.00 | 63/521 | 1.00 | 190/1,562 | 1.00 |
| <20 | 57/849 | 0.55 (0.35-0.87) | 12/307 | 0.42 (0.23-0.77) | 37/290 | 1.03 (0.36-2.92) | 9/166 | 0.66 (0.24-1.79) | 12/114 | 0.88 (0.46-1.69) | 35/342 | 0.81 (0.55-2.41) |
| ≥20 | 47/737 | 0.63 (0.38-1.02) | 5/36 | 2.31 (0.77-6.96) | 25/247 | 0.85 (0.32-2.26) | 3/17 | 0.78 (0.12-5.32) | 7/66 | 0.66 (0.23-1.88) | 21/198 | 0.92 (0.59-2.93) |
| Age at active smoking initiation (yr) | | | | | | | | | | | | |
| Never-smoker | 51/474 | 1.00 | 728/8,492 | 1.00 | 27/27 | 1.00 | 238/1,972 | 1.00 | 63/521 | 1.00 | 190/1,562 | 1.00 |
| ≥25 | 7/234 | 0.26 (0.11-0.61) | 5/223 | 0.24 (0.09-0.60) | 5/16 | 0.20 (0.05-0.73) | 9/107 | 0.85 (0.28-2.56) | 4/44 | 0.62 (0.19-2.05) | 13/133 | 0.84 (0.48-2.14) |
| 20-24 | 68/977 | 0.63 (0.41-0.98) | 11/91 | 1.32 (0.66-2.65) | 37/67 | 0.39 (0.18-0.85) | 1/63 | 0.31 (0.04-2.49) | 8/91 | 0.63 (0.26-1.49) | 23/273 | 0.72 (0.47-1.80) |
| <20 | 29/380 | 0.63 (0.37-1.08) | 2/28 | 0.93 (0.20-4.32) | 21/14 | 1.27 (0.49-3.30) | 3/14 | 2.24 (0.18-27.35) | 7/47 | 0.98 (0.37-2.57) | 21/140 | 1.31 (0.82-6.52) |

OR, odds ratio; CI, confidence interval. ^{a)}Participants with missing information for passive smoking during growing up (5 cases and 158 controls for men; 17 cases and 474 controls for women) and those with childhood and adulthood exposure to passive smoking (96 cases and 588 controls for men; 438 cases and 4,084 controls for women) were excluded, ^{b)}Associations between active smoking and thyroid cancer were assessed by conditional logistic regression model (matching variables: age and sex) adjusted for body mass index (< 25 kg/m², ≥ 25 kg/m², and unknown), education (high school graduation: no, yes, and unknown), marital status (single, married, and unknown), and history of chronic diseases (hypertension or dyslipidemia).