**Supplementary Table 1. The association between dietary manganese intake and thyroid cancer stratified by subgroups**

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| **Dietary manganese intake(1) (mg/d)** | **No. of cases** | **Person years** | **Model 1 HR (95% CI)** | **Model 2 HR (95% CI)** |
| **Smoking status** | | | | |
| *Nonsmoker (n=7118)* | | | | |
| <1.90 | 55 | 27460.64 | 1 | 1 |
| ≥1.90 | 34 | 28715.45 | 0.60 (0.39-0.92) | **0.59 (0.38-0.91)** |
| *Ever smoker (n=3615)* | | | | |
| <1.71 | 10 | 13887.10 | 1 | 1 |
| ≥1.71 | 8 | 14850.39 | 0.75 (0.29-1.89) | 0.64 (0.25-1.65) |
| **Alcohol consumption** | | | | |
| *Nondrinker (n=4028)* | | | | |
| <1.90 | 35 | 15811.15 | 1 | 1 |
| ≥1.90 | 18 | 16684.90 | 0.50 (0.28-0.87) | **0.47 (0.26-0.83)** |
| *Ever drinker (n=6710)* | | | | |
| <1.79 | 29 | 25587.36 | 1 | 1 |
| ≥1.79 | 26 | 26891.27 | 0.86 (0.51-1.46) | 0.79 (0.46-1.36) |
| **BMI group** | | | | |
| *BMI <23 (n=4644)* | | | | |
| <1.86 | 22 | 17965.25 | 1 | 1 |
| ≥1.86 | 26 | 18702.94 | 1.14 (0.65-2.02) | 1.11 (0.63-1.97) |
| *BMI 23-<25 (n=2733)* | | | | |
| <1.84 | 22 | 10659.43 | 1 | 1 |
| ≥1.84 | 9 | 11274.57 | 0.39 (0.18-0.84) | **0.36 (0.17-0.80)** |
| *BMI ≥25 (n=3172)* | | | | |
| <1.80 | 15 | 11952.50 | 1 | 1 |
| ≥1.80 | 10 | 12924.32 | 0.63 (0.28-1.41) | 0.51 (0.23-1.16) |

*(1) The groups were classified based on median value*

***Model 1****: crude model;* ***Model 2:*** *adjusted for age, sex, income, education, occupation, marital status, smoking status, alcohol consumption, BMI, first-degree family history of thyroid cancer, and physical activity.*