Factors	Overall		Age \leq 40 years		Age >40 years		
	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	P value for interaction ^{Δ}
Smoking status							0.219
Never smoker	Ref.		Ref.		Ref.		
Former smoker	0.096	0.012-0.778	NA	NA	0.901	0.344-2.364	
Current smoker	0.333	0.084-1.322	0.741	0.170-3.234	0.846	0.406-1.761	
Intensity of smoking							0.096
(cigarettes/day)							0.986
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.086	0.006-1.228	NA	NA	1.573	0.339-7.299	
Former smoker+ >10	0.045	0.003-0.802	NA	NA	0.668	0.213-2.100	
Current smoker+ ≤ 10	0.601	0.110-3.296	2.067	0.302-14.152	0.723	0.249-2.099	
Current smoker+>10	0.131	0.020-0.847	0.063	0.004-1.037	0.863	0.398-1.873	
Duration of smoking							0.997
(years)							0.997
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 15	0.132	0.007-2.358	NA	NA	1.789	0.382-8.371	
Former smoker+ >15	0.013	0.001-0.378	NA	NA	0.636	0.206-1.963	
Current smoker+ ≤ 15	1.590	0.154-16.379	0.921	0.190-4.459	0.637	0.131-3.104	
Current smoker+>15	0.129	0.018-0.917	0.312	0.024-4.062	0.855	0.406-1.802	
Cumulative dose of							0.989
smoking (pack-years)							0.989
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.097	0.007-1.444	NA	NA	1.443	0.295-7.050	
Former smoker+ >10	0.044	0.002-0.784	NA	NA	0.726	0.238-2.211	
Current smoker+ ≤ 10	1.386	0.161-11.928	2.213	0.332-14.777	0.953	0.293-3.093	
Current smoker+>10	0.172	0.033-0.892	0.038	0.002-0.644	0.805	0.373-17.33	
Age started smoking							0.540
(years)							0.340
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 20	0.096	0.008-1.111	NA	NA	0.575	0.144-2.292	
Former smoker+ >20	0.100	0.008-1.209	NA	NA	1.196	0.376-3.808	
Current smoker+ ≤ 20	0.351	0.080-1.529	0.919	0.157-5.363	0.876	0.398-1.930	
Current smoker+ >20	0.302	0.053-1.724	0.561	0.084-3.747	0.751	0.292-1.934	

Supplementary Table S1. Stratified analyses by age-Associations between smoking status, as well as intensity, duration, cumulative dose and age at start of smoking with thyroid cancer in males.

OR odds ratio, CI confidence interval, Ref. reference, NA No available due to the limited number of subjects. Bold numbers represent significant results.

† Model 4: adjusted for age, education level, average monthly household income, marriage status, family history of thyroid cancer, alcohol intake and BMI.

^A Effect modification was tested by adding interaction terms between these smoking factors and age independently to the model.

Factors	Overall		Under/normal weight		Overweight/obese		
	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	P value for interaction ^{Δ}
Smoking status							0.709
Never smoker	Ref.		Ref.		Ref.		
Former smoker	0.096	0.012-0.778	1.492	0.434-5.127	0.393	0.100-1.545	
Current smoker	0.333	0.084-1.322	0.870	0.372-2.034	0.760	0.288-2.007	
Intensity of smoking							1.000
(cigarettes/day)							1.000
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.086	0.006-1.228	0.756	0.141-4.057	1.725	0.142-20.962	
Former smoker+ >10	0.045	0.003-0.802	2.708	0.457-16.061	0.186	0.031-1.134	
Current smoker ± 10	0.601	0.110-3.296	1.622	0.446-5.902	0.825	0.242-2.816	
Current smoker+>10	0.131	0.020-0.847	0.716	0.282-1.822	0.686	0.234-2.013	
Duration of smoking							0.998
(years)							0.998
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 15	0.132	0.007-2.358	1.042	0.195-5.583	0.937	0.110-7.982	
Former smoker+ >15	0.013	0.001-0.378	1.792	0.354-9.075	0.231	0.041-1.293	
Current smoker+ ≤ 15	1.590	0.154-16.379	1.714	0.432-6.797	0.953	0.197-4.610	
Current smoker+ >15	0.129	0.018-0.917	0.675	0.260-1.750	0.664	0.227-1.941	
Cumulative dose of							0.995
smoking (pack-years)							0.995
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.097	0.007-1.444	0.751	0.119-4.755	1.064	0.133-8.508	
Former smoker+ >10	0.044	0.002-0.784	1.936	0.388-9.660	0.203	0.033-1.259	
Current smoker ± 10	1.386	0.161-11.928	4.484	0.991-20.281	0.716	0.184-2.787	
Current smoker+ >10	0.172	0.033-0.892	0.485	0.184-1.278	0.745	0.253-2.193	
Age started smoking							0.969
(years)							0.969
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 20	0.096	0.008-1.111	0.949	0.165-5.450	0.252	0.035-1.799	
Former smoker+ >20	0.100	0.008-1.209	2.166	0.431-10.892	0.527	0.100-2.766	
Current smoker+ ≤ 20	0.351	0.080-1.529	0.950	0.376-2.399	0.805	0.274-2.370	
Current smoker+ >20	0.302	0.053-1.724	0.741	0.238-2.300	0.686	0.206-2.280	

Supplementary Table S2. Stratified analyses by BMI-Associations between smoking status, as well as intensity, duration, cumulative dose and age at start of smoking with thyroid cancer in males.

OR odds ratio, CI confidence interval, Ref. reference. Bold numbers represent significant results.

† Model 4 adjusted for age, education level, average monthly household income, marriage status, family history of thyroid cancer, alcohol intake and BMI.

^A Effect modification was tested by adding interaction terms between these smoking factors and BMI independently to the model.

Factors	Overall		Non-drinker		Drinker		\mathbf{D} and \mathbf{f} is the second second
	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	OR^{\dagger}	95%CI	P value for interaction ^{Δ}
Smoking status							0.510
Never smoker	Ref.		Ref.		Ref.		
Former smoker	0.096	0.012-0.778	1.094	0.213-5.624	0.514	0.153-1.727	
Current smoker	0.333	0.084-1.322	0.446	0.164-1.213	1.128	0.481-2.647	
Intensity of smoking							0.040
(cigarettes/day)							0.940
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.086	0.006-1.228	0.582	0.062-5.428	0.926	0.148-5.778	
Former smoker+>10	0.045	0.003-0.802	1.979	0.184-21.225	0.338	0.073-1.568	
Current smoker+ ≤ 10	0.601	0.110-3.296	0.306	0.076-1.224	1.466	0.465-4.621	
Current smoker+>10	0.131	0.020-0.847	0.550	0.182-1.658	0.964	0.373-2.490	
Duration of smoking							0.992
(years)							0.882
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 15	0.132	0.007-2.358	0.507	0.051-5.019	1.787	0.309-10.336	
Former smoker+>15	0.013	0.001-0.378	2.004	0.188-21.344	0.234	0.048-1.133	
Current smoker+ ≤ 15	1.590	0.154-16.379	0.978	0.134-7.137	1.069	0.315-3.620	
Current smoker+>15	0.129	0.018-0.917	0.372	0.121-1.138	1.128	0.435-2.924	
Cumulative dose of							0.070
smoking (pack-years)							0.978
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 10	0.097	0.007-1.444	0.597	0.066-5.381	1.035	0.156-6.859	
Former smoker+>10	0.044	0.002-0.784	1.898	0.178-20.225	0.322	0.075-1.378	
Current smoker+ ≤ 10	1.386	0.161-11.928	0.619	0.144-2.655	1.962	0.560-6.871	
Current smoker+>10	0.172	0.033-0.892	0.396	0.130-1.202	0.854	0.332-2.198	
Age started smoking							0.007
(years)							0.906
Never smokers	Ref.		Ref.		Ref.		
Former smoker+ ≤ 20	0.096	0.008-1.111	3.528	0.199-62.556	0.144	0.018-1.154	
Former smoker+ >20	0.100	0.008-1.209	0.512	0.072-3.645	1.008	0.242-4.208	
Current smoker+ ≤ 20	0.351	0.080-1.529	0.449	0.141-1.424	1.154	0.463-2.874	
Current smoker+>20	0.302	0.053-1.724	0.389	0.109-1.388	0.949	0.305-2.948	

Supplementary Table S3. Stratified analyses by alcohol intake-Associations between smoking status, as well as intensity, duration, cumulative dose and age at start of smoking with thyroid cancer in males.

OR odds ratio, CI confidence interval, Ref. reference. Bold numbers represent significant results.

† Model 4 adjusted for age, education level, average monthly household income, marriage status, family history of thyroid cancer, alcohol intake and BMI.

^A Effect modification was tested by adding interaction terms between these smoking factors and alcohol intake independently to the model.

[©] 2020 Wang M. et al.