

Supplementary

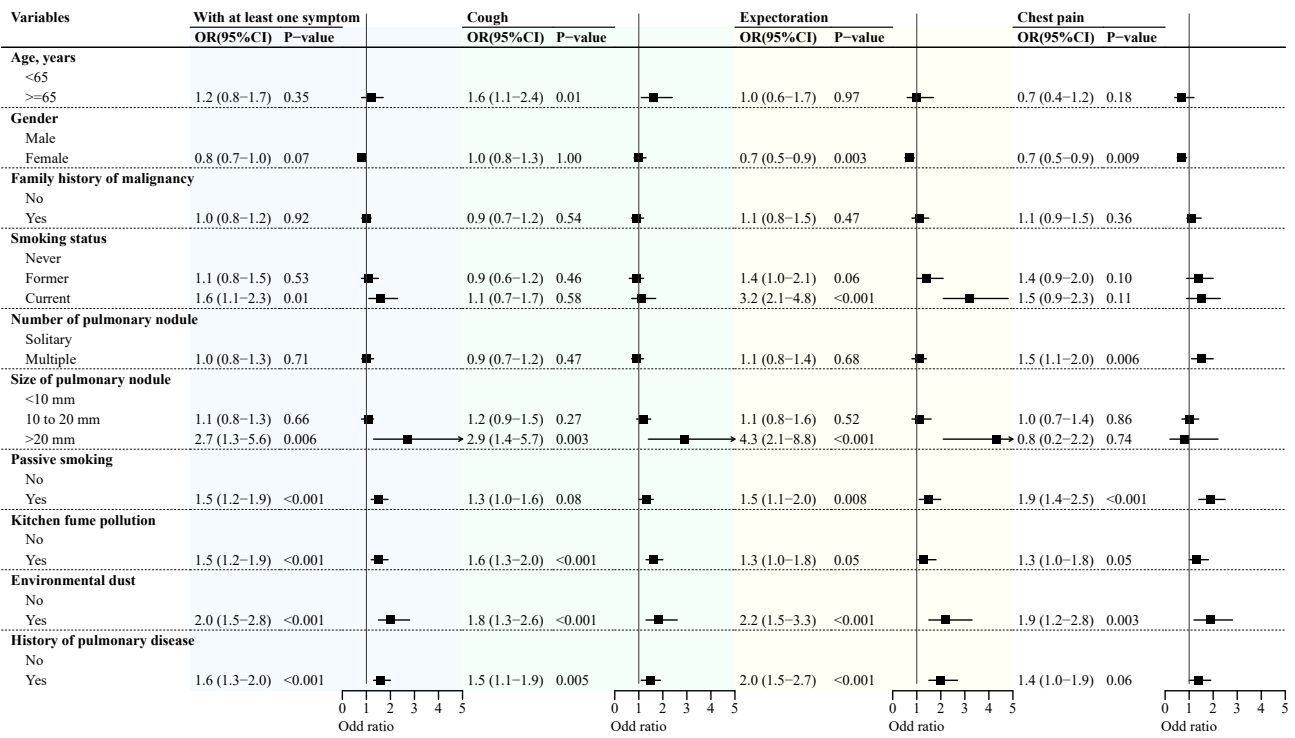


Figure S1 Univariate logistic regression analysis for respiratory symptoms in the entire cohort. OR, odds ratio; CI, confidence interval.

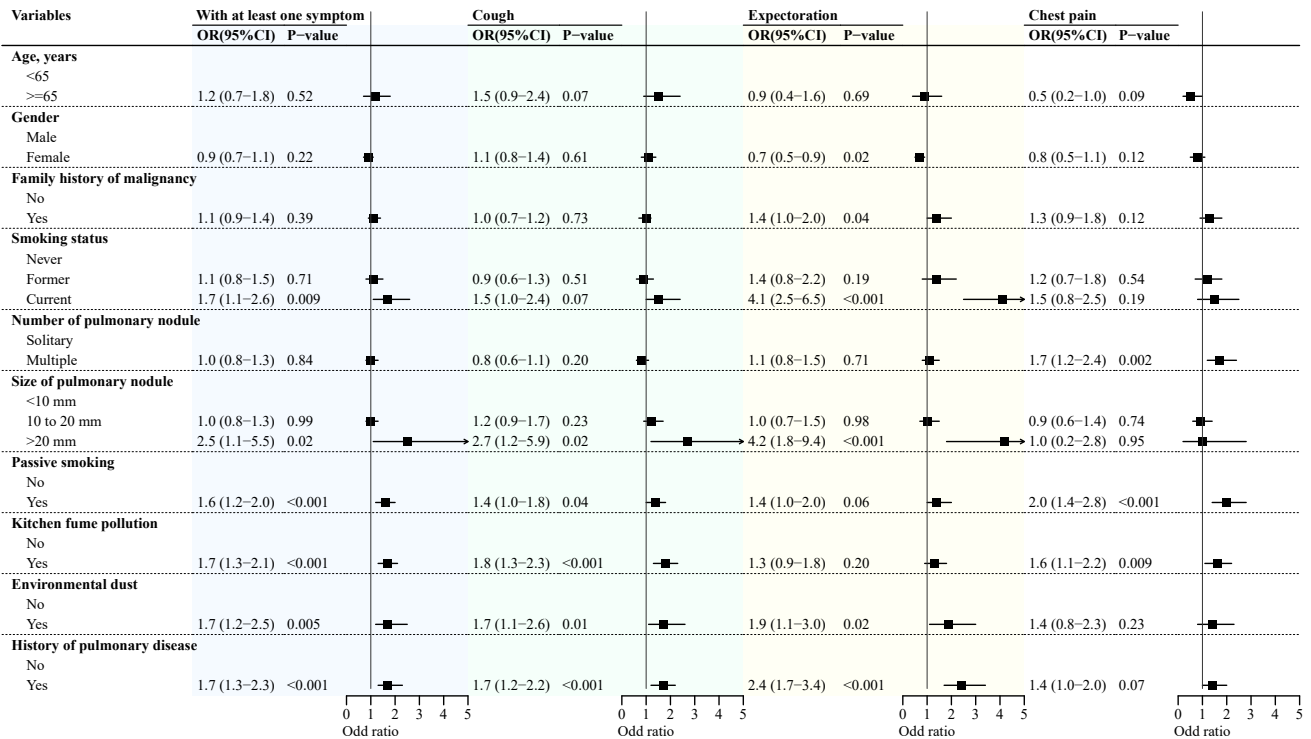


Figure S2 Univariate logistic regression analysis for respiratory symptoms in the health check-up cohort. OR, odds ratio; CI, confidence interval.

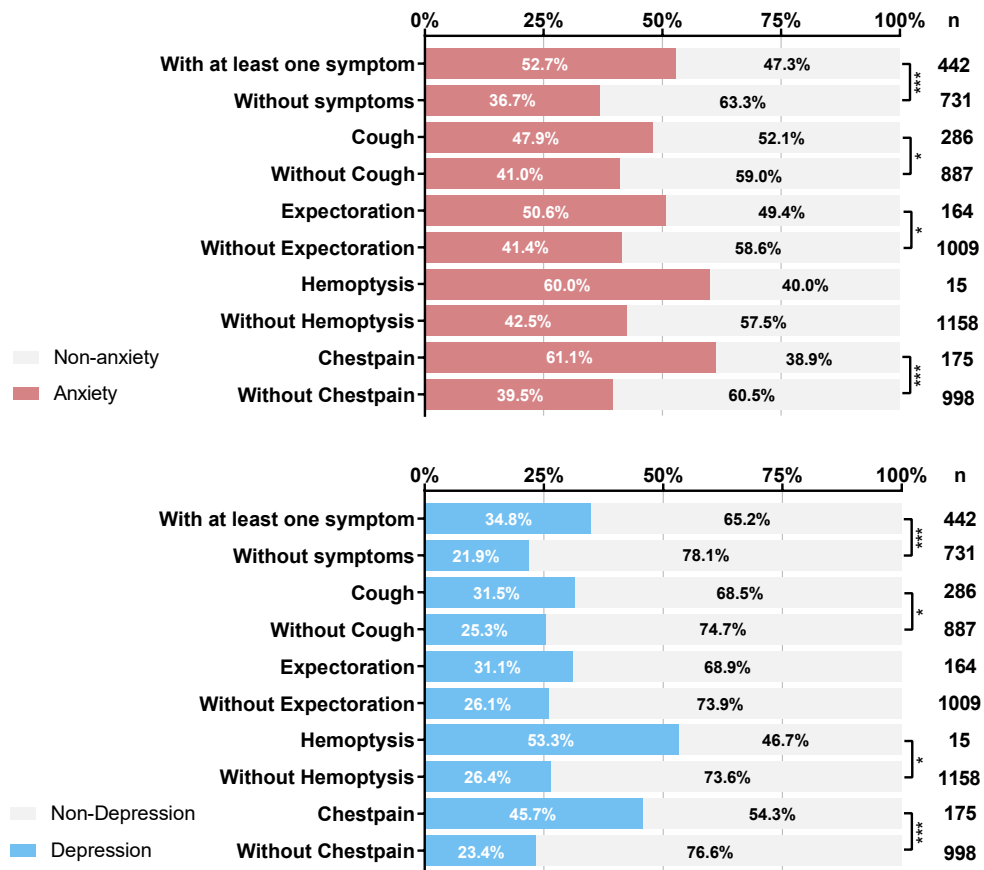


Figure S3 Associations between the respiratory symptoms and the scores of HADS scale. *, P<0.05; ***, P<0.001. HADS, Hospital Anxiety and Depression Scale.

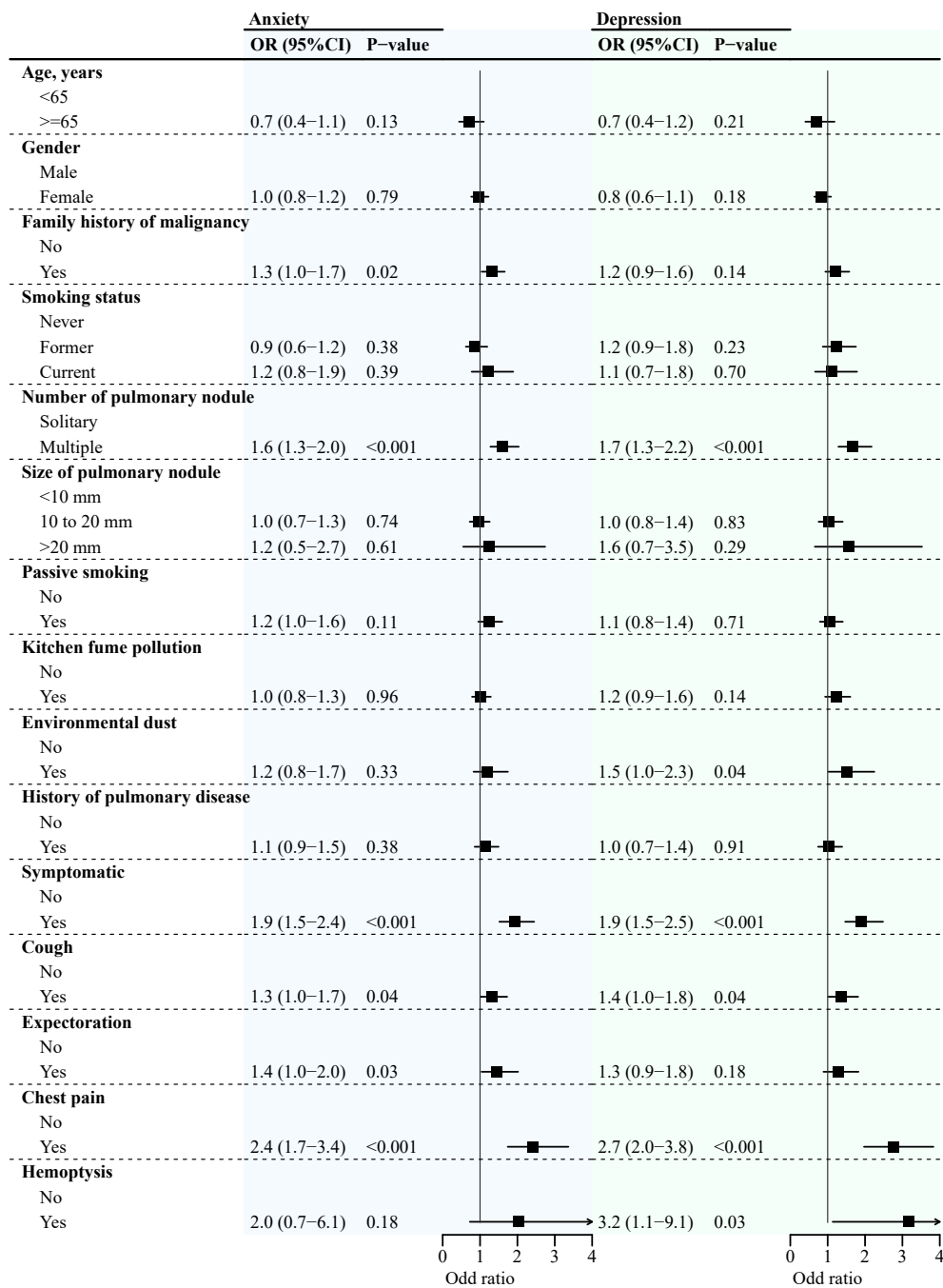


Figure S4 Univariate logistic regression analysis of risk factors for anxiety and depression. OR, odds ratio; CI, confidence interval.

Table S1 Evaluation metrics for the multivariate logistics regression model

Model	Max cook's distance	Max VIF	H-L test		LR test	
			χ^2	P value	χ^2	P value
Entire cohort						
With at least one symptom	0.010	1.111	2.91	0.893	64.06	<0.001
Cough	0.008	1.051	7.10	0.312	43.42	<0.001
Expectoration	0.010	1.801	14.72	0.065	73.99	<0.001
Chest pain	0.031	1.195	15.16	0.056	41.41	<0.001
Anxiety	0.023	1.165	7.40	0.494	49.69	<0.001
Depression	0.024	1.187	10.41	0.108	54.58	<0.001
Health check-up cohort						
With at least one symptom	0.010	1.109	5.13	0.644	57.32	<0.001
Cough	0.012	1.024	1.03	0.984	41.69	<0.001
Expectoration	0.016	1.740	4.74	0.784	65.14	<0.001
Chest pain	0.049	1.018	8.07	0.326	30.47	<0.001

VIF, variance inflation factor; H-L, Hosmer-Lemeshow; LR, likelihood ratio.

Table S2 Demographic and clinical characteristics of participants in the health check-up cohort (n=1,354)

Variables	Values
Age (years), n (%)	
<35	192 (14.2)
35–65	1,066 (78.7)
≥65	96 (7.1)
Gender, n (%)	
Male	508 (37.5)
Female	846 (62.5)
Family history of malignancy, n (%)	
Yes	742 (54.8)
No	612 (45.2)
Smoking status, n (%)	
Current	102 (7.5)
Former	187 (13.8)
Never	1,065 (78.7)
Size of pulmonary nodule (mm), n (%)	
<10	1,044 (77.1)
10 to 20	284 (21.0)
>20	26 (1.9)
Number of pulmonary nodules, n (%)	
Solitary	687 (50.7)
Multiple	667 (49.3)
Risk factor, n (%)	
Passive smoking	
Yes	344 (25.4)
No	1,010 (74.6)
Kitchen fume pollution	
Yes	428 (31.6)
No	926 (68.4)
Environmental dust	
Yes	118 (8.7)
No	1,236 (91.3)
History of pulmonary disease, n (%)	
Yes	290 (21.4)
No	1,064 (78.6)