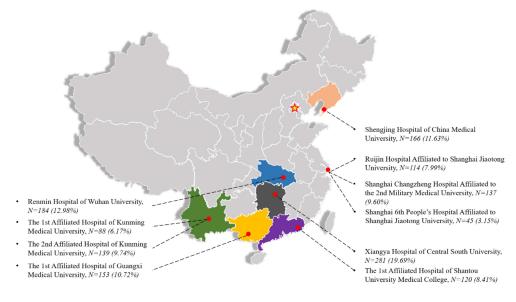
Appendix

Appendix 1 The number of sampled residents by the institution of standardized residency training programs (n=1,414).



Variable	VIF	VIF		
variable	(Model 1)	(Model 2)		
Age Group				
24-28		1.65		
>28		2.05		
Gender (Female)		1.22		
Marital Status (Married)		1.24		
Annual Income Level				
50-100,000 RMB	1.14	1.36		
>100,000 RMB	1.11	1.25		
Education				
Master		1.22		
Doctor		1.44		
Year of training				
2	3.00	3.05		
3	3.03	3.31		
Specialty				
Surgery	1.43	1.59		
Gynecology & Obstetrics, General	1.38	1.40		
Medicine and Pediatrics	1.58	1.40		
Neurology, Psychiatry, Emergency,	1.32	1.33		
and Anesthesiology	1.32	1.55		
Others	1.36	1.37		
Nightshift interval (≥7 days)	1.04	1.05		
Working hours				
45~54 hours/week	1.26	1.27		
>54 hours/week	1.28	1.28		
Career in Medicine	1.15	1.15		
Necessity of Training				
Neutral	2.02	2.06		
Necessary	2.20	2.24		
Satisfaction with Income				
Neutral	1.24	1.25		
Satisfied	1.23	1.24		
Job Satisfaction	2.67	2.70		
Resilience	2.42	2.44		
Burnout	1.39	1.41		
Mean VIF	1.71	1.66		

Appendix 2. VIF tests after multiple linear regressions in Table 3
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Note: VIF, variance inflation factor.

		g logistic regressions (n=			
High Turnover Intention	Univariate Logistic Regression	Multiple Logistic Regression (Model 3)	Multiple Logistic		
mgn rurnover intention	Odds Ratio (SE)	Odds Ratio (SE)	Regression (Model 4) Odds Ratio (SE)		
Age Group	Odds Ratio (SE)				
<24	Ref	Ref	Ref		
24-28	1.218 (0.166)	1.163 (0.197)	1.173 (0.201)		
>28	1.514 (0.290)**	1.621 (0.407)	1.521 (0.401)		
Gender	1.511 (0.290)	1.021 (0.107)	1.521 (0.101)		
Male	Ref		Ref		
Female	1.052 (0.114)		1.185 (0.164)		
Marital Status					
Single/Divorced	Ref		Ref		
Married	1.316 (0.194)		1.262 (0.239)		
Education			()		
Bachelor	Ref	Ref	Ref		
Master	0.998 (0.12)	0.998 (0.146)	0.935 (0.142)		
Doctor	1.696 (0.42)*	1.578 (0.5)	1.41 (0.469)		
Annual Income Level	()		· · · · ·		
<50,000 RMB	Ref		Ref		
50-100,000 RMB	0.796 (0.102)		1.105 (0.187)		
>100,000 RMB	1.67 (0.681)		1.553 (0.844)		
Year of training					
1	Ref	Ref	Ref		
2	0.925 (0.172)	0.839 (0.175)	0.869 (0.184)		
3	0.616 (0.113)**	0.511 (0.109)**	0.538 (0.117)**		
Specialty					
Internal Medicine	Ref	Ref	Ref		
Surgery	0.695 (0.107)*	0.557 (0.102)**	0.595 (0.116)**		
Gynecology & Obstetrics,	0.555 (0.091)***	0.589 (0.112)**	0.579 (0.111)**		
General Medicine and Pediatrics	0.555 (0.071)	0.569 (0.112)	0.577 (0.111)		
Neurology, Psychiatry,	0.869 (0.149)	0.702 (0.142)	0.712 (0.145)		
Emergency, and Anesthesiology					
Others	0.655 (0.104)**	0.54 (0.099)**	0.54 (0.099)**		
Nightshift interval					
<7 days	Ref		Ref		
\geq 7 days	0.854 (0.092)		0.913 (0.115)		
Working hours					
<45 hours/week	Ref	Ref	Ref		
45~54 hours/week	1.154 (0.135)	1.06 (0.147)	1.064 (0.148)		
>54 hours/week	1.57 (0.264)**	1.153 (0.227)	1.161 (0.229)		
Career in Medicine					
Yes	Ref	Ref	Ref		
No	0.411 (0.047)***	0.477 (0.065)***	0.474 (0.065)***		
Necessity of Training					
Unnecessary	Ref	Ref	Ref		
Neutral	0.89 (0.14)	1.05 (0.193)	1.043 (0.193)		
Necessary	0.635 (0.093)**	0.835 (0.149)	0.844 (0.152)		
Satisfaction with Income	D î	D 3	D 3		
Dissatisfied	Ref	Ref	Ref		
Neutral	0.578 (0.077)***	0.694 (0.114)*	0.67 (0.114)*		
Satisfied	0.322 (0.096)***	0.512 (0.177)	0.453 (0.165)*		
Psychological Resilience	1.017 (0.003)***	1.058 (0.006)***	1.058 (0.006)***		
Job Satisfaction	1.003 (0.003)	0.996 (0.006)	0.995 (0.007)		
Burnout	1.045 (0.004)***	1.063 (0.006)***	1.063 (0.006)***		
Pseudo r-squared		0.193	0.196		
Chi-square		378.532***	383.036^{***}		

Appendix 3. Modeling High Turnover intention using logistic regressions (n=1,414)

 $\label{eq:transformed into binary variable: High turnover intention = 1 if score > 12. \\ *0.01$

Appendix 4. Model litness index for the original SEM model and the linal model										
Fit statistic	χ ² (P)	df	χ^2/df	CFI	TLI	RMSEA	SRMR	CD	Diagnosis	
Recommended value	P>0.05	/	<5.0	≥ 0.90	≥0.91	< 0.05	< 0.08	Δ		
Original SEM Model	424.128	9	9 47.13	0.592	0.139	0.181	0.101	0.211	Not fit	
(Without mediators)	(<0.001)		47.13							
Final SEM Model	12.568	8	8 1.57	1 57	0.009	0.993	0.02	0.009	0 705	E:4
(Figure. 2)	(0.128)			0.998	0.993	03 0.02	0.008	0.705	Fit	

Appendix 4. Model fitness index for the original SEM model and the final model

Notes: RMSEA, Root mean squared error of approximation; CFI, Comparative fit index; TLI, Tucker-Lewis index; SRMR, Standardized root mean squared residual; CD, Coefficient of determination. Δ , CD is like R-squared for the whole model, the higher value indicate higher percentage of data can be explained by the model.