

**Table S6. Univariate and multivariate analysis of QFT conversion**

	QFT conversion		Crude OR*	Adjusted OR*
	n/N	%	(95% CI)	(95% CI)
<b>Gender</b>				
Male	218/5726	3.81	Ref.	Ref.
Female	172/6990	2.46	<b>0.63 (0.52, 0.78)</b>	<b>0.69 (0.52, 0.92)</b>
<b>Age</b>				
5-9 years	5/1181	0.42	Ref.	Ref.
10-19 years	21/1346	1.56	<b>3.72 (1.40, 9.92)</b>	<b>3.51 (1.30, 9.49)</b>
20-29 years	30/1029	2.92	<b>7.06 (2.73, 18.27)</b>	<b>6.77 (2.39, 19.16)</b>
30-39 years	36/1250	2.88	<b>6.98 (2.73, 17.83)</b>	<b>5.97 (2.13, 16.71)</b>
40-49 years	105/2935	3.58	<b>8.73 (3.55, 21.46)</b>	<b>7.47 (2.77, 20.17)</b>
50-59 years	70/2137	3.28	<b>7.97 (3.21, 19.79)</b>	<b>6.73 (2.47, 18.33)</b>
60-69 years	78/1847	4.22	<b>10.37 (4.19, 25.69)</b>	<b>8.59 (3.19, 23.15)</b>
≥ 70 years	45/991	4.54	<b>11.19 (4.42, 28.30)</b>	<b>9.82 (3.62, 26.66)</b>
<b>Education level</b>				
≤Primary school	204/7043	2.90	Ref.	Ref.
Middle school	149/4135	3.60	<b>1.25 (1.01, 1.55)</b>	1.14 (0.89, 1.46)
High school	29/1213	2.39	0.82 (0.55, 1.22)	0.77 (0.51, 1.18)
≥College	8/325	2.46	0.85 (0.41, 1.73)	0.86 (0.40, 1.85)
<b>Family per capita income</b>				
< 6000 RMB	230/8503	2.70	Ref.	
≥ 6000 RMB	160/4213	3.80	1.10 (0.89, 1.36)	
<b>Smoking status</b>				
Never smoke	244/9880	2.47	Ref.	Ref.
Ever smoke	146/2833	5.15	<b>2.15 (1.74, 2.65)</b>	<b>1.42 (1.05, 1.91)</b>
<b>Alcohol drinking</b>				
No	294/10353	2.84	Ref.	Ref.
Yes	96/2362	4.06	<b>1.45 (1.15, 1.83)</b>	0.90 (0.68, 1.19)
<b>BCG scar</b>				
Absent	190/5966	3.18	Ref.	
Present	220/6749	2.96	0.91 (0.76, 1.14)	
<b>BMI</b>				
<18.5	186/5815	3.20	<b>0.48 (0.40, 0.69)</b>	1.04(0.68, 1.59)
≥18.5-<24	36/2292	1.57	Ref.	Ref.
≥24-<28	120/3341	3.59	1.13 (0.89, 1.42)	1.15 (0.91, 1.46)
≥28	48/1267	3.79	1.19 (0.86, 1.65)	1.33 (0.96, 1.86)
<b>History of close contact with TB patient</b>				
No	360/12086	2.98	Ref.	Ref.
Yes	29/609	4.76	<b>1.63 (1.10, 2.40)</b>	1.22 (0.82, 1.83)
<b>Study site</b>				
Site A	95/3489	2.72	Ref.	Ref.
Site B	78/3707	2.10	0.77 (0.57, 1.04)	0.89 (0.65, 1.22)
Site C	138/2790	4.95	<b>1.86 (1.43, 2.43)</b>	<b>1.89 (1.43, 2.50)</b>
Site D	79/2730	2.89	1.07 (0.79, 1.44)	<b>1.48 (2.08-1.43)</b>

Abbreviation: BCG, Bacillus Calmette-Guérin; BMI, body mass index; CI, confidence interval; QFT, QuantiFERON-TB Gold In-Tube; OR, odds ratio; TB, tuberculosis.

\* Controlling for variables with significant association in univariate analysis.