

Table S1 Clinical diagnostic criteria of TB-patients according to the national diagnostic criteria (WS 288-2008)

1. Bacteriologically confirmed TB pulmonary tuberculosis:

Acid fast bacilli positive with 2 sputum samples in smear microscopy tests; or

Acid fast bacilli positive with 1 sputum samples in smear microscopy tests, and active pulmonary tuberculosis by radiological examination; or

Acid fast bacilli positive with 1 sputum samples in smear microscopy tests, and mycobacterium tuberculosis positive in 1 sputum culture; or

Negative in sputum smear microscopy tests but positive in 1 sputum culture, and active pulmonary tuberculosis in radiological examination

2. Not bacteriologically confirmed pulmonary tuberculosis:

Negative in sputum smear microscopy tests and sputum culture, and radiological examination of active pulmonary tuberculosis with suspicious symptoms such as cough, expectoration, and hemoptysis; or

Negative in sputum smear microscopy tests and sputum culture, and radiological examination of active pulmonary tuberculosis with strong positive result in TST (TB-PPD test); or

Negative in sputum smear microscopy tests and sputum culture, and Radiological examination of active pulmonary tuberculosis with positive result in anti-tuberculosis antibody test; or

Negative in sputum smear microscopy tests and sputum culture, and radiological examination of active pulmonary tuberculosis with tuberculosis positive in pathological examination of the extra-pulmonary lesions; or

Negative in sputum smear microscopy tests and sputum culture, and suspected lung pulmonary tuberculosis cases determined by diagnostic therapy or follow-up observation with other possible causes of lung diseases being ruled out

TB, tuberculosis; TST, tuberculin skin test; PPD, purified protein derivative.

Table S2 Demographic characteristics of 132 tuberculosis patients

Characteristics	All, n (%)	Bacteriological negative, n (%)	Bacteriological positive, n (%)	χ^2/Z	P value
Gender				0.006	0.940
Male	80 (60.6)	39 (60.9)	41 (60.3)		
Female	52 (39.4)	25 (39.1)	27 (39.7)		
Race				0.004	0.951
Han nationality	128 (97.0)	62 (96.9)	66 (97.1)		
Others	4 (3.0)	2 (3.1)	2 (2.9)		
Age, years				2.618	0.106
≤ 25	34 (25.8)	16 (25.0)	18 (26.5)		
26–39	38 (28.8)	15 (23.4)	23 (33.8)		
40–55	29 (22.0)	12 (18.8)	17 (25.0)		
> 55	31 (23.5)	21 (32.8)	10 (14.7)		
BMI, kg/m ²				2.008	0.156
< 18.5	22 (16.7)	10 (15.6)	12 (17.6)		
18.5 to < 24	82 (62.1)	37 (57.8)	45 (66.2)		
24 to < 28	24 (18.2)	14 (21.9)	10 (14.7)		
≥ 28	4 (3.0)	3 (4.7)	1 (1.5)		
Occupation				0.565	0.452
Agricultural labor	10 (7.6)	6 (9.4)	4 (5.9)		
Nonagricultural labor	122 (92.4)	58 (90.6)	64 (94.1)		
Smoking status				0.120	0.729
Never smoked	93 (70.5)	46 (71.9)	47 (69.1)		
Ever smoked	39 (29.5)	18 (28.1)	21 (30.9)		
Alcohol drinking				1.287	0.257
No	106 (80.3)	54 (84.4)	52 (76.5)		
Yes	26 (19.7)	10 (15.6)	16 (23.5)		
Median CRP (IQR), mg/L	1.60 (0.80–4.00)	1.45 (0.70–3.55)	1.80 (0.83–6.08)	–1.216	0.224
Median IgG (IQR), g/L	9.69 (8.28–11.93)	9.25 (8.42–11.17)	10.26 (8.11–12.59)	–1.742	0.082
Median IgA (IQR), g/L	2.19 (1.56–2.95)	2.04 (1.38–2.70)	2.34 (1.65–3.08)	–1.605	0.108

CRP, C-reactive protein; IQR, interquartile range; BMI, body mass index.