

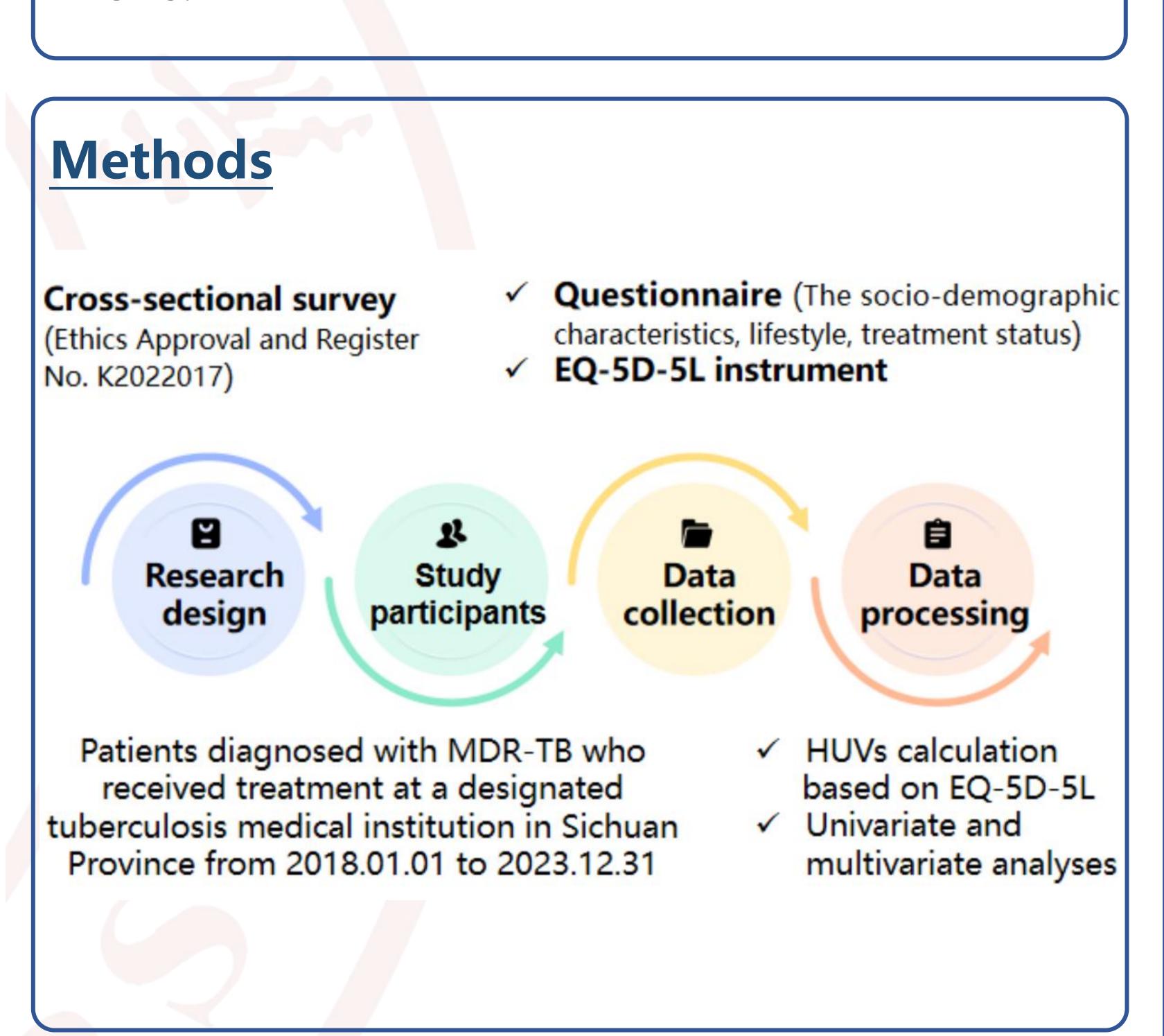
Health utilities of patients with multidrug-resistant tuberculosis and its influencing factors: A cross-sectional study based on EQ-5D-5L in China

PCR86

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Objectives

Multidrug-resistant tuberculosis (MDR-TB) affects the health-related quality of life (HRQoL) of patients, this study aims to provide health utility values (HUVs) for MDR-TB patients in China and to identify the factors influencing HUVs.



Conclusion

The study provided the HUVs of MDR-TB patients in China which is a lack of evidence for the economic evaluation of interventions. The identified factors could also contribute to healthcare management and improving the HRQoL for MDR-TB patients.

Results

- A total of 195 participants were finally included. The mean age was 34.85±11.99 years, with male being 60.0%.
- The most frequently reported difficulty were 'pain/discomfort' (56.92%) and 'anxiety/depression' (52.82%).
- The mean HUV of all patients was 0.857±0.182. And the HUV was 0.893±0.157 in patients who had completed treatment, which was higher than that of 0.822±0.198 in patients undergoing treatment (p<0.001), as shown in table 1.

Table 1. The HUVs of MDR-TB patients. ***p<0.001.

Groups	n(%)	HUV		p
		Mean	SD	-
All patients	195(100%)	0.857	0.182	/
Undergoing treatment	98(50.26%)	0.822	0.198	0.000237
Completed treatment	97(49.74%)	0.893	0.157	***

• The univariate analysis (Table 2) showed that age, occupation, labor intensity, treatment status, treatment effects, adverse reactions, medication and perceived discrimination were the main factors affecting HUV. The multivariate analysis (Table 3) further suggested that patients with unemployment, depression and anxiety, feelings of discrimination, and patients need for family care when taking medication were statistically significantly related to lower HUVs.

Table 2. The univariate analysis results

Factors Coefficients p Groups **Factors** 0.0117* ≤24; 25-35; 36-55; ≥55 Occupation (ref. = Age Farmer/Worker/Freelancing) Farmer/Worker/Freelancing; Service industry; Self-employed; -0.161 0.00449** Unemployed Government/Corporate/Public Occupation **Depression and anxiety** (ref. = No) institutions employee; Student; 0.00154** Healthcare professionals; Retiree; 0.0146* -0.108 Unemployed; Others **Medication** (ref. = Self-medication) Labor intensity Light; Moderate; Heavy 0.0496* Family care 2.74E-06*** -0.305 0.000237 Treatment Undergoing; Completed 0.00172** -0.520 Both status Cured; Improved; No significant Treatment **Perceived discrimination** (ref. = 0.000546 change; Recurrence later effects Absolutely no) 0.000323 Adverse -0.105 0.0605 No Yes; No reaction A little bit 0.000535*** -0.195 0.00355 Self-medication; Family care; Both Medication 0.000606*** -0.202 Yes Absolutely no; No; A little bit; Yes; **Perceived** 9.25E-06 9.67E-05*** Very much -0.264 discrimination Very much

Table 3. The multivariate analysis results

ref.:reference; *p<0.05, **p<0.01, ***p<0.001.