

JA Cárdenas Londoño¹ ; A Obando²

¹Fundación Cardioinfantil , Cardiovascular Critical Care Unit, Bogotá DC, Colombia, ²Fundación Santa Fe de Bogotá, Anesthesia Department, Bogotá DC, Colombia

Introduction:

Tuberculous meningitis is a manifestation of extrapulmonary tuberculosis, developing in 1%–5% of the approximately 10 million cases of TB worldwide. Is the most lethal form of Mycobacterium tuberculosis infection. (1)

Methods:

Collected data from the National Administrative Department of Statistics between 2007 and 2022 (2). Univariate analysis included central tendency measures depending on data nature and distribution, bivariate analysis included X2 test for independence and logistic regression modeling to obtain OR's with their corresponding 95% Confidence Intervals. The statistical significance of the tests was defined as $p < 0.05$.

Results:

A total of 5657 patients were obtained. The age range was 1 to 85 years. There were 127 cases of migrant population, 91% of the patients were hospitalized at the time of the report. The male to female presentation ratio is 2:1. Mortality by age group is higher in Senior 29.8 and was explored as a risk factor for mortality with a statistically significant P. Mortality is higher in the group of hospitalized patients 24.6% compared to non-hospitalized patients 7.2%. Mortality in the migrant population and the general population is the same. The population with a subsidized type of social security has a mortality of 26.4% compared to 19.3% for the contributory type.

Conclusion:

This is the largest series reported by a country. We found statistically significant risk factors associated with mortality to be age over 65 years, affiliation to subsidized regime, hospitalized at the time of diagnosis, there is no association between geographical location and mortality, we also identified that hospitals with lower number of cases have higher mortality.

References:

1. Navarro-Flores, A., Fernandez-Chinguel, J.E., Pacheco-Barrios, N. *et al.* Global morbidity and mortality of central nervous system tuberculosis: a systematic review and meta-analysis. *J Neurol* **269**, 3482–3494 (2022). <https://doi.org/10.1007/s00415-022-11052-8>
2. <https://www.datos.gov.co/>