Outcome of drug-resistant tuberculosis treatment among HIV-positive patients at the tertiary center in Tehran

Payam Tabarsi *, Parvaneh Baghaei, Afshin Moniri, Majid Marjani, Ali Akbar Velayati

Clinical Tuberculosis and Epidemiology Research Center, National Research Institute of Tuberculosis and Lung Diseases (NRITLD), Masih Daneshvari Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran

ARTICLE INFO

Article history:
Received 21 November 2014
Accepted 25 November 2014
Available online 10 January 2015

Keywords:
Resistance tuberculosis
HIV
Treatment outcome
INH
RIF

ABSTRACT

Objectives: Drug-resistant tuberculosis (TB) is a major challenge in controlling TB. HIV-positive patients are vulnerable to TB 100 times more than the general population. Drug-resistant TB leads to high morbidity and mortality in this population. In this study, the outcome of treatment of drug-resistant TB among HIV positive patients from 2003 to 2013 in a tertiary center in Iran will be reviewed.

Materials and methods: All HIV-positive patients with any drug-resistant TB from 2003 to 2013 were selected. The outcome of treatment was extracted from patients’ charts.

Results: Out of 269 TB-HIV patients, 34 patients were recruited. All patients were male and the mean age was 37.38 ± 7.03. Isoniazid (INH) resistant, rifampin (RIF) resistant and multidrug resistant (MDR) was diagnosed in 11 (32.4%), 7 (20.6%) and 16 (47.1%), respectively. Mean CD4 count was 91.61 ± 23.55. Outcome of treatment in the INH-resistant cases was cured in 5 (45.5%), failure in 2 (18.2%) and death in 4 (36.4%). In the RIF-resistant group, outcome was as follows: cured 5 (71.4%) and failure in 2 (28.6%). In the MDR-TB patients’ group, cured, failure and death were 12 (75%), 2 (12.5%) and 2 (12.5%), respectively.

Conclusion: Treatment of drug-resistant TB can be achieved despite considerable mortality.

*C211 2015 Published by Elsevier Ltd. on behalf of Asian-African Society for Mycobacteriology.

* Corresponding author at: Masih Daneshvari Hospital, Darabad, Niyavaran Str, Tehran 1955841452, Iran. Tel./fax: +98 21 26109590.
E-mail address: paysamtabarsi@yahoo.com (P. Tabarsi).
http://dx.doi.org/10.1016/j.ijmyco.2014.11.057
2212-5531/© 2015 Published by Elsevier Ltd. on behalf of Asian-African Society for Mycobacteriology.