

POSTER PRESENTATION

Open Access

Factors associated with unfavorable evolution of tuberculosis in HIV infected persons

Florentina Dumitrescu^{1,2*}, Andreea Cristina Stoian^{1,2}, Augustin Cupşa^{1,2}, Mihai Jianu², Alina Lungu², Alexandra Corobea², Dina Maria Cupşa², Adrian Neguleţ²

From The 9th Edition of the Scientific Days of the National Institute for Infectious Diseases Prof Dr Matei Bals Bucharest, Romania. 23-25 October 2013

Background

Tuberculosis (TB) is one of the most common opportunistic infections in HIV-infected patients, with severe evolutive potential.

We evaluated the prevalence and the clinical aspects of TB in HIV-infected persons in order to identify factors associated with unfavorable evolution of TB.

Methods

We performed an observational, retrospective study (01 January 2009 – 31 December 2011) on 387 HIV-infected patients in evidence at the HIV/AIDS Craiova Regional Center. We analyzed the epidemiological, clinical and paraclinical data (smears and cultures for *Mycobacterium tuberculosis*, immunovirological evaluation) for patients who presented at least 2 times per year at the regional center.

Results

During the studied period 59 patients (15.3%) presented TB (9 cases simultaneously diagnosed with HIV and TB). General data on the study group: average age at the moment of TB diagnosis: 25.5±7.4 years; equal gender distribution: male/female 30/29; rural/urban 40/19 (67.8/32.2%); average CD4 count 3 months before TB diagnosis: 179±204 cells/cmm; average viral load: 5.09±5.3 log₁₀. TB was: pulmonary: 46 cases (77.9%), extrapulmonary 8 (13.6%), multiple locations 5 (8.5%). 19 cases (32.2%) were bacteriologically confirmed (positive smears and/or positive cultures). 53 patients (89.8%) were under antiretroviral treatment, with a very good adherence in 19 patients (32.2%). Other opportunistic infections apart from TB were recorded in 28 patients (47.4%). 29 patients (49.2%) had favorable outcome,

complication or relapse occurred in 10 cases (16.9%) and 20 patients (33.9%) died. Factors associated with unfavorable evolution were: delay in the introduction of anti-TB treatment more than 30 days from the first symptom (p=0.001); the presence of other opportunistic infections apart from TB (p=0.0001), low adherence to treatment (p=0.0001). Death was associated with extrapulmonary/multiple location of TB (p=0.005) and average CD4<100 cells/cmm (p=0.002).

Conclusion

Tuberculosis is common in patients infected with HIV, the unfavorable evolution being associated with severe immunosuppression, extrapulmonary TB location, poor adherence and delay in the introduction of anti-TB treatment.

Authors' detail

¹University of Medicine and Pharmacy Craiova, Romania. ²"Victor Babeş" Clinical Hospital of Infectious Diseases and Pneumology, Craiova, Romania.

Published: 16 December 2013

doi:10.1186/1471-2334-13-S1-P16

Cite this article as: Dumitrescu *et al.*: Factors associated with unfavorable evolution of tuberculosis in HIV infected persons. *BMC Infectious Diseases* 2013 **13**(Suppl 1):P16.

^{*} Correspondence: dumitrescu_florentina@yahoo.com

¹University of Medicine and Pharmacy Craiova, Romania
Full list of author information is available at the end of the article

