

POSTER PRESENTATION

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Particular evolution of newborns exposed to HIV/AIDS in the Romanian cohort

Mariana Mărdărescu^{1*}, Adrian Streinu-Cercel^{1,2}, Cristina Petre¹, Ruxandra Neagu-Drăghicenoiu¹, Rodica Ungurianu¹, Sorin Petrea¹, Ana Maria Tudor^{1,2}, Alina Cibea¹, Delia Vlad¹, Carina Matei¹, Marieta Iancu¹, Alexandra Mărdărescu³, Ioana Anca⁴, Cosmina Cristea⁴, Mihai Mitran⁵

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

HIV infection in Romania has always stood for a particular event compared to Western and Central Europe epidemics. The specificity of the Romanian epidemic lays in a high rate of incidence in children, registered at the end of 1980s and beginning of 1990s, otherwise known as the "epidemiological accident". Over 70% of people living with HIV/AIDS (PLWHA) in Romania are long term survivors. The main objectives of our prospective study were to assess the incidence of congenital malformations in children born to HIV positive mothers from the Romanian cohort of long-term survivors; to determine whether an increase in this incidence is correlated with: HIV infection per se, the length of HIV infection, antiretroviral therapy (ART), use of "so called" legal drugs (ethnobotanics), HIV +ART, HIV+ART+ethnobotanics.

Methods

In two different groups of patients we assessed the following parameters: gestational age, weight at birth, Apgar score, clinical development, ultrasound exams at birth and at 18 months (Aloka Pro Sound SSD-550 SV).

Results

The first study group comprised 150 children to 485 HIV positive mothers (35% of all children evaluated in the time span: 2000-2011); the control group was made up of 75 children to non-HIV mothers (4% of all children admitted at the Institute for Mother and Child Protection "Alfred Rusescu", Bucharest).

In the study group, 64 children (42.66% of the exposed children) were diagnosed with different malformations. The most prevalent was atrial septal defect but there were several complex cardiac malformations. Out of the 75 children in the control group, 14 malformations (19.73%) and 11 cardiac malformations (15%) were detected. A first statistical evaluation revealed that the incidence of cardiac malformations in the exposed children group is not statistically different to the control group (p=0.11), the complexity grade being higher. A statistically significant difference is observable for the other types of malformations (p<0.01).

Conclusion

The impact of antiretroviral treatment and HIV infection on the fetus and newborn represents a continuously debated topic throughout the world. However, one cannot exclude the duration of the mother's disease, especially for Romania's epidemic particularities, that are to be further studied. Within this context, in order to better comprehend the evolution of mother to child transmission, a program has recently been launched, namely The National Registry for the surveillance of HIV pregnant women and perinatally exposed newborns.

Authors' details

¹National Institute for Infectious Diseases "Prof. Dr. Matei Bals", Bucharest, Romania. ²Carol Davila University of Medicine and Pharmacy, Bucharest, Romania. ³Romanian HIV/AIDS Centre, National Institute for Infectious Diseases "Prof. Dr. Matei Balş", Bucharest, Romania. ⁴Institute for Mother and Child Protection "Alfred Rusescu", Bucharest, Romania. ⁵Clinical Hospital for Obstetrics and Gynecology "Prof. Dr. Panait Sârbu", Bucharest, Romania.

Full list of author information is available at the end of the article



^{*} Correspondence: mardarescum@yahoo.com

¹National Institute for Infectious Diseases "Prof. Dr. Matei Bals", Bucharest, Romania

Published: 16 December 2013

doi:10.1186/1471-2334-13-S1-P3

Cite this article as: Mărdărescu *et al.*: **Particular evolution of newborns exposed to HIV/AIDS in the Romanian cohort.** *BMC Infectious Diseases* 2013 **13**(Suppl 1):P3.

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