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Strategies for materno-fetal transmission of HIV, HIV and HBV coinfections in Constanta - Romania

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Introduction: In Constanta County in the last 14 years, we noticed an increasing number of children exposed to HIV or HIV and HBV through mother-to-child transmission.

Objective: To present our model of prevention and to assess mother-to-child transmission (MTCT) of HIV or HIV and HBV coinfections over a period of 6 years and 6 months (1st January 2008 – 27th June 2014).

Material and methods: Our model of prevention and care regarding prophylaxis of MTCT is implemented and continuous improved for the last 14 years. We also performed a retrospective study about relevant parameters in new born and mothers: Duration and type of combined antiretroviral treatment (cART), ELISA-HIV, HBsAg, and HIV viral load (VL). Statistical analysis was performed using IBM SPSS Statistics 20 software.

Results: Our model of care is based on three major aspects: HIV screening in pregnant women, delivery by C-section, and careful monitoring of children by lab analysis and home care surveillance. Over studied period 144 new born from 121 HIV⁺ mothers have been monitored. 7 mothers were with HIV and HBV coinfection but none of them transmitted any disease in their children. The median age in mothers was 23.15 and mean 23.08 (range: 17 to 39, SD=3.58). In studied period mortality rate in children was 5.5%, and mother's mortality rate was 5.78%. 98.6% children received cART after birth, and 92.56 mothers received cART during pregnancy. At delivery, mothers' CD4 mean value was 440/mm³ (95% CI for the mean 287.1 to 497.0) and VL mean was 15710 copies/ml. HIV transmission in new born is associated with high HIV viral load in mothers ($p < 0.0001$).

Conclusions: Our model of care decreased the HIV MTCT rate over the years (8% in 2009 to 4% in 2013). In studied period MTCT rate in Constanta was 3.4% for HIV, 0% for HIV and HBV co-infection.

Biography

Simona Claudia Cambrea, MD, PhD is Associate Professor, Faculty of Medicine, "Ovidius" University, Constanta Romania. She finished her medical studies at "Gr. T. Popa University of Medicine and Pharmacy Iasi", Romania in 1994. She has completed her PhD at the age of 35 years at the same university. Her doctoral thesis was about antiretroviral treatment in HIV⁺ patients. She performed in 2005 her Master of Medical Science in Health Service Management at Faculty of Dentistry and Pharmacy, "Ovidius" University Constanta, Romania. She has 20 years of experience regarding medical academic work. Currently, she is also the Medical Director of Clinical Infectious Diseases Hospital, Constanta, Romania. During the last years she was involved in the prevention and reduction of materno-fetal transmission of HIV. She has published more than 100 papers in reputed Romanian and International Journals.

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