

likely to adhere to HAART and other PMTCT interventions. The sample size of 184 for the exposed babies seems small to make generalization to the entire population. The data on infant feeding methods was based on maternal recall, and hence we cannot exclude the possibility of recall bias.

Conclusion/Recommendation

With adequate provision of HAART to all HIV infected pregnant women for life, virtual elimination of MTCT and thus pediatric HIV infections is possible in a society where infant breast feeding and vaginal delivery are the norms. Government commitment and financial support are critical for future sustainability of the currently United States of American government-driven HIV/AIDS projects.

References

- UNAIDS: Global Report: UNAIDS Report on the Global AIDS Epidemic. Geneva: 2012. Available from: http://www.unaids.org/en/media/unaids/contentassets/documents/epidemiology/2012/gr2012/20121120_unaids_global_report_2012_with_annexes_en.pdf. [Last accessed on 2013 Feb 16].
- European Collaborative Study. Risk factors for mother-to-child transmission of HIV-1. *Lancet* 1992;339:1007-12.
- Tess BH, Rodrigues LC, Newell ML, Dunn DT, Lago TD. Breastfeeding, genetic, obstetric and other risk factors associated with mother-to-child transmission of HIV-1 in Sao Paulo State, Brazil. Sao Paulo Collaborative Study for Vertical Transmission of HIV-1. *AIDS* 1998;12:513-20.
- Renjifo B, Gilbert P, Chaplin B, Msamanga G, Mwakagile D, Fawzi W, *et al.* Preferential in-utero transmission of HIV-1 subtype C as compared to HIV-1 subtype A or D. *AIDS* 2004;18:1629-36.
- Simpson BJ, Shapiro ED, Andiman WA. Prospective cohort study of children born to human immunodeficiency virus-infected mothers, 1985 through 1997: Trends in the risk of vertical transmission, mortality and acquired immunodeficiency syndrome indicator diseases in the era before highly active antiretroviral therapy. *Pediatr Infect Dis J* 2000;19:618-24.
- Connor EM, Sperling RS, Gelber R, Kiselev P, Scott G, O'Sullivan MJ, *et al.* Reduction of maternal-infant transmission of human immunodeficiency virus type 1 with zidovudine treatment. Pediatric AIDS Clinical Trials Group Protocol 076 Study Group. *N Engl J Med* 1994;331:1173-80.
- Guay LA, Musoke P, Fleming T, Bagenda D, Allen M, Nakabiito C, *et al.* Intrapartum and neonatal single-dose nevirapine compared with zidovudine for prevention of mother-to-child transmission of HIV-1 in Kampala, Uganda: HIVNET 012 randomised trial. *Lancet* 1999;354:795-802.
- Lallemant M, Jourdain G, Le Coeur S, Mary JY, Ngo-Giang-Huong N, Koetsawang S, *et al.* Single-dose perinatal nevirapine plus standard zidovudine to prevent mother-to-child transmission of HIV-1 in Thailand. *N Engl J Med* 2004;351:217-28.
- Boucher M, Cohen H, Gruslin A, Money D, Steben M, Wong T. Mode of delivery for pregnant women infected by the human immunodeficiency virus. *J SOGC* 2001;23:348-50.
- ACOG committee opinion. Scheduled cesarean delivery and the prevention of vertical transmission of HIV infection. Number 219, August 1999. Committee on Obstetric Practice. American College of Obstetricians and Gynecologists. *Int J Gynaecol Obstet* 1999;66:305-6.
- European Collaborative Study. Mother-to-child transmission of HIV infection in the era of highly active antiretroviral therapy. *Clin Infect Dis* 2005;40:458-65.
- Mark S, Murphy KE, Read S, Bitnun A, Yudin MH. HIV mother-to-child transmission, mode of delivery, and duration of rupture of membranes: Experience in the current era. *Infect Dis Obstet Gynecol* 2012; 2012:267969.
- WHO. Antiretroviral Drugs for Treating Pregnant Women and Preventing HIV Infection in Infants. Recommendations for a Public Health Approach (2010 version). Geneva: WHO; 2010. Available from: http://www.who.int/publications/2010/9789241599818_eng.pdf. [Last accessed on 2013 Feb 16].
- WHO. Use of antiretroviral drugs for treating pregnant women and preventing HIV infection in infants: Programmatic update. Geneva: WHO; 2012. Available from: http://www.who.int/hiv/pub/mtct/programmatic_update2012/en/index.html. [Last accessed on 2012 Jul 11].
- Kuhn L, Stein Z, Susser M. Preventing mother-to-child HIV transmission in the new millennium: The challenge of breast feeding. *Paediatr Perinat Epidemiol* 2004;18:10-6.
- Kesho Bora Study Group, de Vincenzi I. Triple antiretroviral compared with zidovudine and single-dose nevirapine prophylaxis during pregnancy and breastfeeding for prevention of mother-to-child transmission of HIV-1 (Kesho Bora study): A randomised controlled trial. *Lancet Infect Dis* 2011;11:171-80.
- Kouanda S, Tougri H, Cisse M, Simpore J, Pietra V, Doulougou B, *et al.* Impact of maternal HAART on the prevention of mother-to-child transmission of HIV: Results of an 18-month follow-up study in Ouagadougou, Burkina Faso. *AIDS Care* 2010;22:843-50.
- Chama CM, Bello M, Ajayi BA, Zarma S, Gashau W. The use of highly active antiretroviral therapy for the prevention of mother-to-child transmission of the human immunodeficiency virus in Nigeria. *J Obstet Gynaecol* 2010;30:362-6.
- Okeudo C, Ezem B, Ojiyi E. Mother-to-child transmission rate of HIV at Orlu, South-Eastern Nigeria. *Internet J Gynaecol Obstet* 2012;16:2.

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