HIV AND PRE-ECLAMPSIA: IS THERE A CONNECTION?

**ABSTRACT** 

**Objective** 

In view of recent suggestions that HIV infection may protect against pre-eclampsia, this study was done to estimate whether untreated HIV positive pregnant women have a lower rate of preeclampsia-eclampsia than HIV negative women.

Methods

Subjects for this study were pregnant women from Soweto, South Africa, who gave birth from March to December 2002 at midwife-run clinics or at the Chris Hani Baragwanath Hospital, and in whom the HIV status was known. A sample size calculation indicated that 2588 subjects would be required to show statistical significance at P<0.05 with a power of 80% for a reduction in the rate of preeclampsia from 8% to 5% with HIV seropositivity, assuming an HIV seroprevalence rate of 30%. Data collection was by record review from randomly selected patient files and birth registers.

**Results** 

In the total sample of 2600 women, 1797 gave birth at the hospital and 803 at the midwife-run clinics. The HIV seroprevalence rate was 27.1%. Hypertension was found in 17.3% of women, with 5.3% having preeclampsia-eclampsia. The rates of preeclampsia-eclampsia were 5.2% in HIV negative and 5.7% in HIV positive women (P=0.61). CD4 count results were available for only 13 women (0.5%).

Conclusion

HIV seropositivity was not associated with any reduction in the risk of developing preeclampsia-eclampsia.