



Infant HIV Outcomes at 18 Months and PMTCT service factors at Lumumba Health Centre, Kisumu, Kenya

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Background

- Every year 3.2 million children get infected with HIV worldwide 90% of the infections occur in Africa
- In Kenya, of approximately 1.5 million children born annually:
 - an estimated 50,000 to 60,000 infants are exposed to HIV and in need of Prevention of Mother-to-Child Transmission (PMTCT)
- Nearly all infant HIV infections occur through mother-to-child transmission (MTCT)
- Without PMTCT interventions, 20% of infants infected with HIV will ultimately die before their second birthday

Objectives

- To determine the HIV point prevalence among exposed infants born to HIV-infected mothers who attended a PMTCT clinic
- To evaluate predictors for HIV acquisition



Photo by Beth Novey

Methods

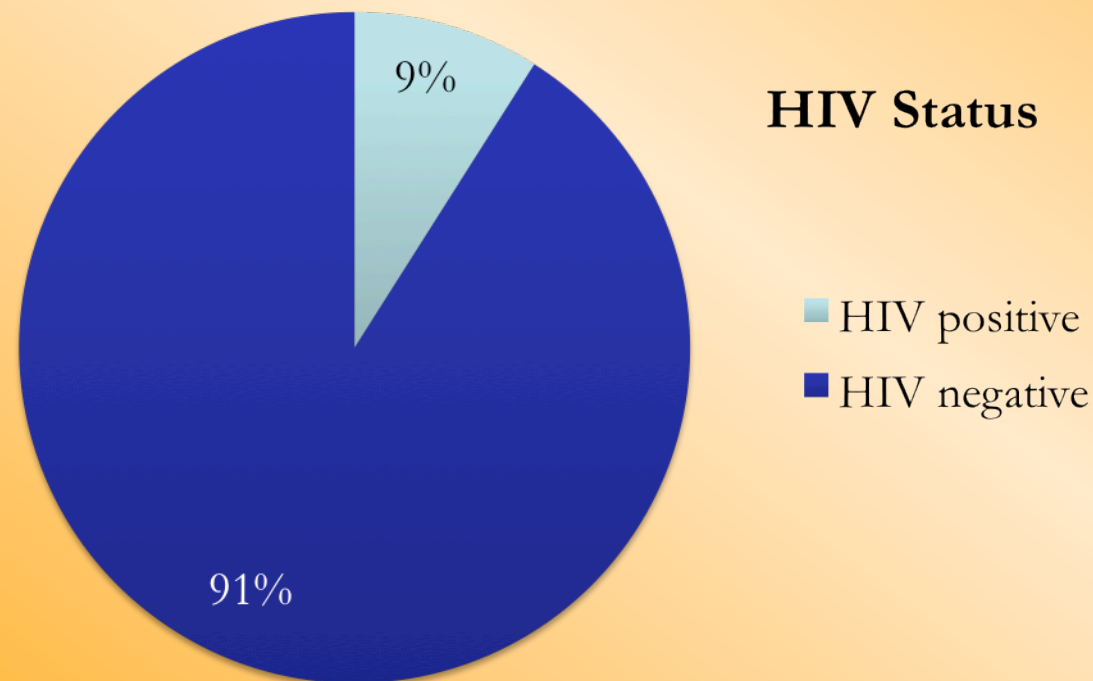
- Retrospective cross sectional study
- Lumumba Health Centre, Kisumu East
- 80 women seen daily in antenatal (ANC)
- Sample randomly selected using STATA
- Inclusion criteria: HIV exposed infants (HEI) who attended PMTCT clinic within 27 months retrospectively from the time of evaluation – Jan 2012
- Data abstracted from HEI electronic database, mother & baby patient charts and registers

Cont. Methods

- Infant HIV outcome
 - 18-month antibody test postnatally
- Predictors
 - Delivery location
 - Infant feeding mode
 - Infant ARV prophylaxis
- Analysis
 - Fisher's exact
 - Epi Info

Results – Point Prevalence

- 138 HEI examined
 - Of which 12 (9%) were HIV positive



Results - Predictors

Table 1: Findings		HIV Status		Fisher’ s Exact test
Predictor		Positive	Negative	p-value
Delivery Location		N=12 (9 %)	N=126 (91 %)	
Hospital		3	89	p<0.001
Home		9	37	
Infant feeding				
Exclusive Breastfeeding		2	100	p<0.001
Other		10	26	
ARV prophylaxis given to infant				
Yes	3	96		p<0.001
No	9	30		

Conclusions

- Infants born to HIV positive mothers are significantly less likely to acquire HIV if:
 - Delivered in a hospital,
 - Receive ARV prophylaxis, and
 - Practice exclusive breastfeeding
- Uptake of these proven preventive interventions needs strengthening to accelerate elimination of MTCT



Photo by Beth Novey

Limitations of the Evaluation

- The sample size was small, hence it is hard to generalize the findings
- The study was conducted in one facility
- There was no comparison group in this study

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The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention

