



What is the magnitude of previous exposures to ARVs among women in PMTCT at Nsambya Hospital?

Pius Okong

AI SPO/San Raffaele Hospital Scholarship

Training Course in Reproductive Health Research

WHO 2007



Socio-Demographic Indicators of Uganda

- **Total Population** - **24.6 million**
- **Population growth rate** - **3.4%**
- **Doubling time** - **21 years**
- **Life expectancy at birth** - **42 yrs**
- **HIV Sero-prevalence** - **6.2%**
- **Infant mortality rate** - **88/1000 L.B.**
- **Under 5 mortality rate** - **157/1000 L.B.**
- **Maternal mortality ratio** - **505/100,000 L.B.**

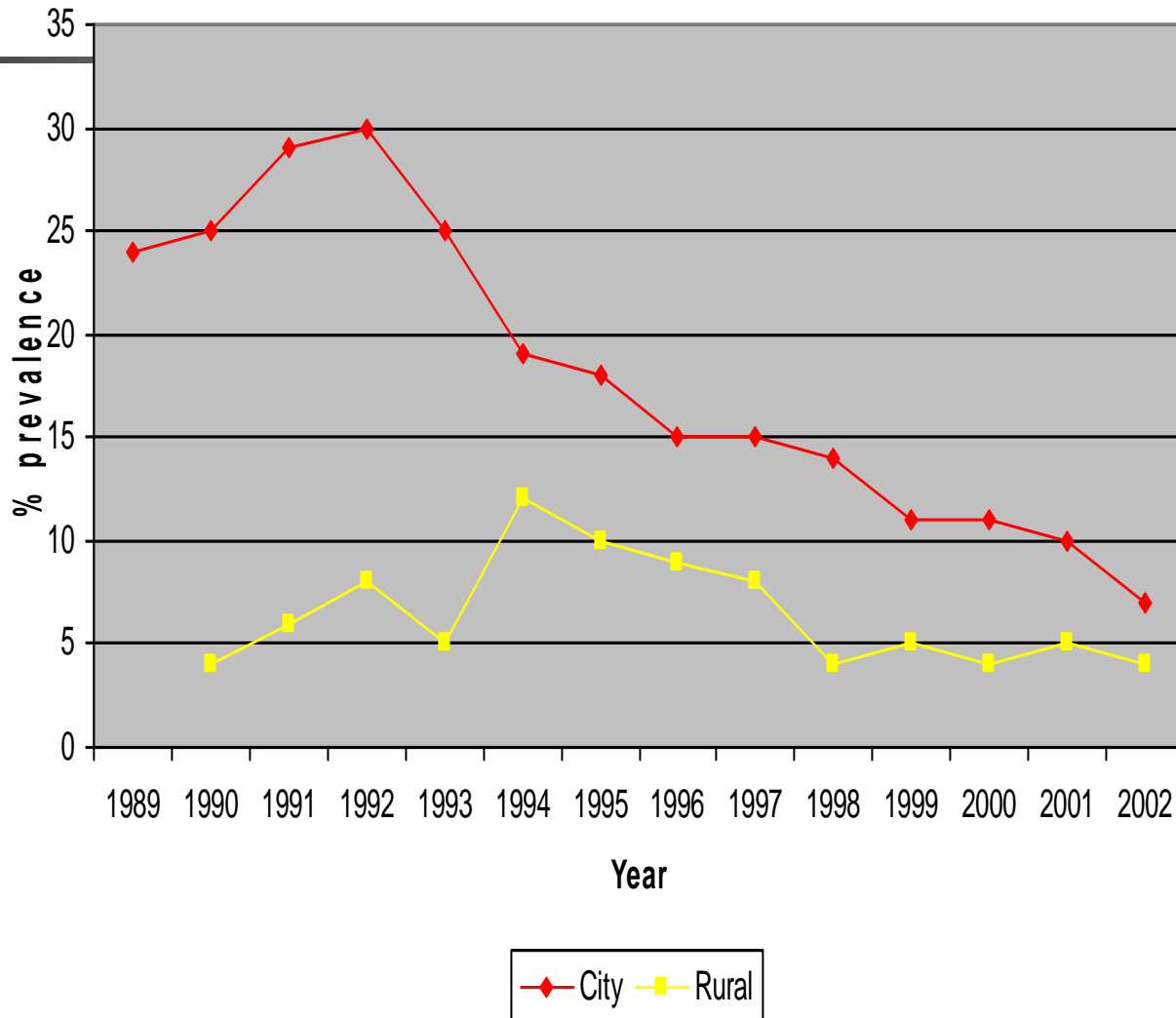


HIV Status in the country

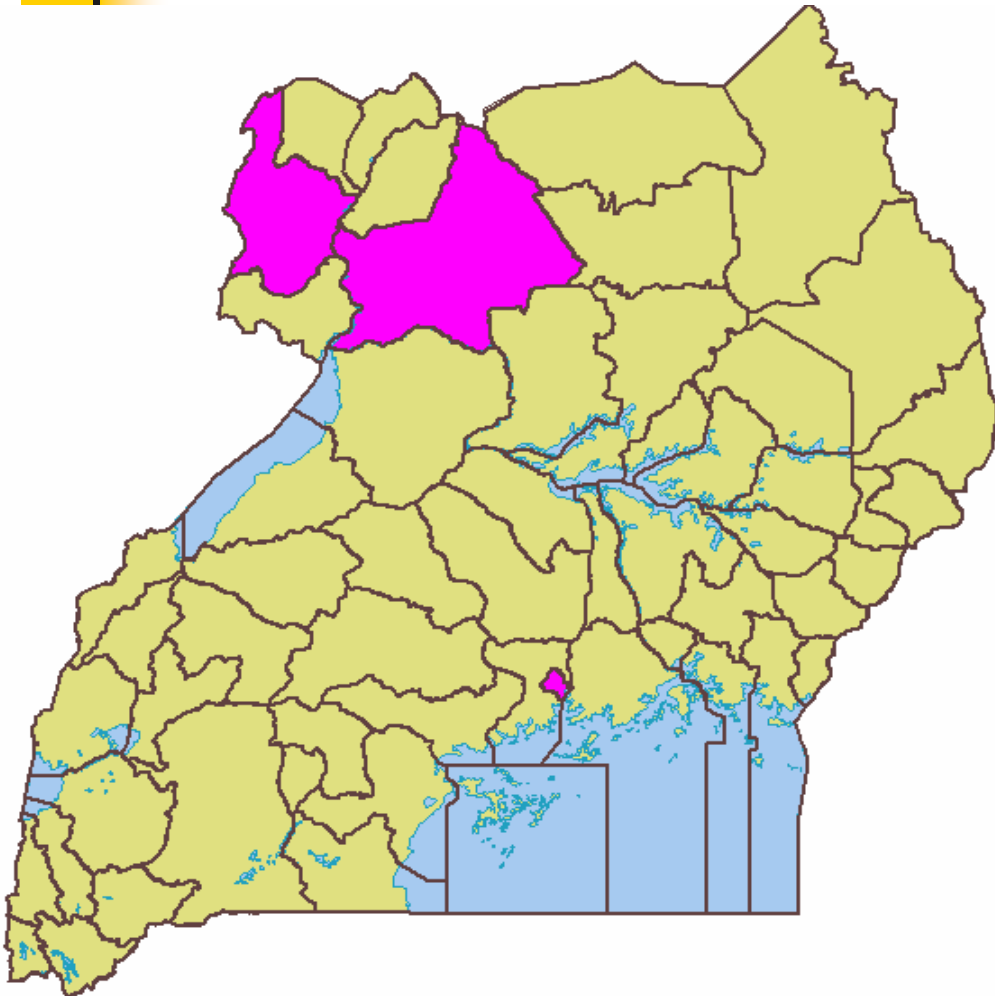
Cumulative HIV+ 2 – 2.2 million

- **Estimated 860,000 have since died.**
- **Estimated 1.2 – 1.4m living with HIV.**
- **70% of PLWA groups are women.**
- **HIV/AIDS incidence among girls 15 – 19 years is 4 – 6 times that of boys of same age.**
- **Infected children contribute 10% of infected persons in Uganda.**

Figure 1. Median HIV prevalence: pregnant women in ANC in Uganda



PMTCT in Uganda



- 5 Pilot sites in 2000
- Scale up 2001 (over 224 active sites by 2004)
- Policies and guidelines 2001, Update 2005-6
- Monitoring and Evaluation system was put in place



Programme implementation

Issue	Remarks
Counseling and testing	Integrated in MCH, VCT, new policy and Routine testing (opt-out to get results)
Type of ARV's used	NVP only 2000-2006 NVP, NVP +AZT and HAART in ART accredited sites(2007)
Obstetric care	Restricted rupture of membranes/episiotomy. no routine elective CS
Infant Feeding choice	Mainly EBF (63%) , few opt substitute.. Formula (poverty, stigma, poor sanitation)



San Raphael of St. Francis Hospital Nsambya

- **Founded 104 years ago**
- **360 beds**
- **6,500 deliveries per year**
- **First sentinel surveillance site HIV in ANC women 1989**
- **Recorded highest HIV prev 29% 1991**
- **First pilot site for PMTCT**



Previous exposures to ARVs

- 1980s to 1996-non
- 1997 to 1999- clinical trials(140 PETRA, 90 SIMBA) {Lancet 2002 359(9313):1178-86, AIDS 200317(10):1570-2}
- 2000-2005:2011 HIV+ identified
1341 (66%) HIV+ exposed to ARVs prophylaxis: NVP, AZT, HAART?



Previous programme evaluations

- **Uptake of HIV+ into programme** {Magoni, Okong et al. *Int J STD AIDS* 2007 18 (2):109-13}
- **Quality of life of HIV+** {Nuwagaba, Okong et al. *AIDS Care* 2006 18(6):614-20}
- **Infant feeding and HIV transmission** {Magoni, Okong et al. (*AIDS* 2005 19(4):433-7)}
- **Drug resistance** {Giuliano, Okong et al. *AIDS* 2003 17(10);1570-2}
- **No evaluation of ARV re exposure?**



Problem statement

- **High TFR 6.9 children/woman**
- **HIV positive women no exception**
- **Number of pregnant women already exposed to ARVs increasing**



Research questions

- **What is the Proportion of HIV+ women in ANC previously exposed?**
- **What ARVs?**
- **What care did women previously exposed to ARVs get 2000-2006?**



Justification

- **PMTCT policy amendments 2005-6**
- **Care for HIV positive increasingly complex**
- **PMTCT integrated in RH, care by non specialized health workers**
- **Previous exposure can jeopardize transmission, treatment for babies and mothers**



Objectives

- **Determine No. of HIV+ pregnant women previously exposed in PMTCT 2000-6**
- **Describe characteristics of exposed women**
- **Identify programmatic needs for HIV+ women previously exposed**



Ethical issues

- **Permission from Hospital IRB and National Council for Science and Tech**



Design

- **A cross sectional retrospective study**
- **Systemic review of hospital records**
- **Source documents: Registers-Lab, ANC, deliveries, MTC Plus, inpatient records**
- **Dev a questionnaire, pretest**
- **Recruit/train research assistant/data collection**
- **Security of records/questionnaires**



Data collection and analysis

- **Develop a log frame/ list of all HIV positive from registers (study subjects)**
- **Collect all relevant records for each case**
- **Abstraction of relevant data from records**
- **Quality control, data entry and analysis: 2x2 tables and cross tabulations**



Time frame

- **Data collection tools/IRB approval/Budget—April-May**
- **Recruit Assistant, train, pretest questionnaires-----May/June**
- **Data collection/data entry/cleaning—June to September**
- **Analysis, report writing, dissemination-- --October---December**







Acknowledgements

- **GFMER**
- **WHO-RHR**
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- **MINISTRY OF HEALTH UGANDA**



Finally



■ Thank you