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

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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
<table>
<thead>
<tr>
<th>Issue</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Counseling and testing</td>
<td>Integrated in MCH, VCT, new policy and Routine testing (opt-out to get results)</td>
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<tr>
<td>Type of ARV’s used</td>
<td>NVP only 2000-2006&lt;br&gt;NVP, NVP + AZT and HAART in ART accredited sites (2007)</td>
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<td>Obstetric care</td>
<td>Restricted rupture of membranes/ episiotomy. no routine elective CS</td>
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<td>Infant Feeding choice</td>
<td>Mainly EBF (63%) , few opt substitute.. Formula (poverty, stigma, poor sanitation)</td>
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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
- 2000-2005: 2011 HIV+ identified
  1341 (66%) HIV+ exposed to ARVs prophylaxis: NVP, AZT, HAART?
Previous programme evaluations

- **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
- SAN RAPHAEL MILAN & ST. FRANCIS HOSPITAL NSAMBYA
- MINISTRY OF HEALTH UGANDA
Finally

- Thank you