

UNIVERSITÄT BERN





Malignancies in HIV-infected adult and paediatric patients on ART



National Cancer Registry

Dr Mazvita Sengayi

mazvita.sengayi@nhls.ac.za

COPYRIGHTPROTECTED @ NATIONALHEALTHLABRATORYSERVICE

CANCER LINKAGE STUDIES IN THE IEDEA



- Paediatric Cancer Linkage Study
 - Paediatric IeDEA cohorts and Paediatric Oncology
 Departments
- Adult Cancer Linkage Study
 - Adult IeDEA cohorts and the National Cancer Registry (NCR)







PAEDIATRIC RECORD LINKAGE



HIVcohorts

13,123 children

Paediatric oncology departments

196 HIV infected cancer cases

Identifiers:

Folder numbers, name, date of birth, gender

Identifiers:

Folder number, name, date of birth, gender







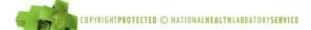
HIV cohorts

- 1. Red Cross *Children's* Hospital, Cape Town
- Tygerberg Hospital, Cape Town
- 3. Khayelitsha cART Programme, Cape Town
- Harriet Shezi Clinic, Johannesburg
- 5. Rahima Moosa, Mother and Child Hospital, Johannesburg

Pediatric oncology departments

- + Red Cross, Cape Town
- + Tygerberg, Cape Town
- + Baragwanath, Johannesburg
- + Charlotte Maxeke, Johannesburg





LIMITATIONS AND CONCLUSIONS



- Record linkages with HIV cohort data and cancer registry data are feasible
- Ascertainment of cancers in ART programmes is incomplete
- The incidence of cancer in HIV-infected children is high
- The risk of developing cancer increases with age
- ART reduces the risk of developing cancer





ADULT HIV LINKAGE



- Themba Lethu Clinic, Johannesburg compared with National Cancer Registry (NCR) cancer reports
- * 14763 HIV-infected adults (aged >16 years at time of ART) enrolled 2005 -2009 vs 62418 Gauteng province cancer reports 2005 2011
- ×A total of 1251 cancers identified







- The incidence of cancer in HIV-infected adults is high
- The risk of developing cancer increases with age and decreases with increasing CD4 count
- ART reduces the risk of developing KS and NHL
- The risk of cervical cancer remains high even for patients on ART
- The risk of NADCs is higher in patients on ART





ACKNOWLEDGMENTS



Contributing leDEA sites, pediatric oncology departments and National Cancer Registry

Mhairi Maskew Brian Eley Hans Prozesky Helena Rabie Harry Moultrie Daniela Garone Karl Technau Robin Wood Cristina Stefan Janet Poole Rosalind Wainwright Alan Davidson

Danuta Kielkowski Nicky Maxwell Barry Kistnasamy **Evans Muchiri** Mary-Ann Davies Matthias Egger Julia Bohlius Fabio Valeri Adrian Spoerri Marcel Zwahlen Chris Hoffmann





