Malignancies in HIV-infected adult and paediatric patients on ART

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Paediatric Cancer Linkage Study
- Paediatric IeDEA cohorts and Paediatric Oncology Departments

Adult Cancer Linkage Study
- Adult IeDEA cohorts and the National Cancer Registry (NCR)
HIV-cohorts
13,123 children

Paediatric oncology departments
196 HIV infected cancer cases

Identifiers:
Folder numbers, name, date of birth, gender

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### HIV cohorts

1. Red Cross *Children’s Hospital*, Cape Town
2. Tygerberg Hospital, Cape Town
3. Khayelitsha cART Programme, Cape Town
4. 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

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**IeDEA**

*International epidemiologic Databases to Evaluate AIDS*

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**NATIONAL HEALTH LABORATORY SERVICE**
• 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
- 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.
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