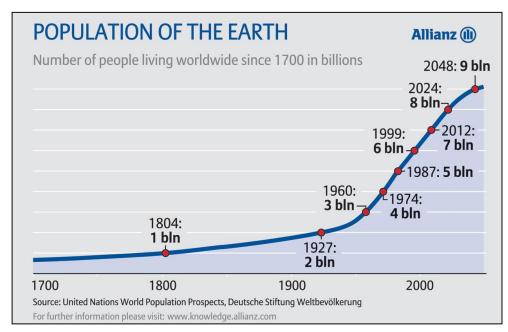
Landscape of Cancer Registration in South Africa



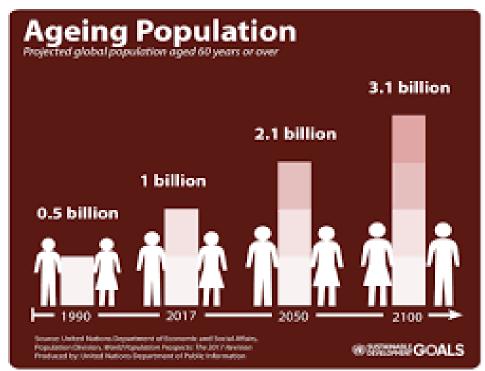
Dr Elvira Singh
National Cancer Registry
5 September 2018
NCR Cancer Town Hall Meeting



Changing

Cancer

Burden





Cancer Epidemiology and Surveillance

- ► Cancer surveillance identify changes in cancer rates
- Interventions can be implemented and resources can be allocated
- Being a chronic disease, cancer rates change gradually over time
- Cancer interventions and cancer surveillance are a long-term investments - 10-20 year trends in incidence

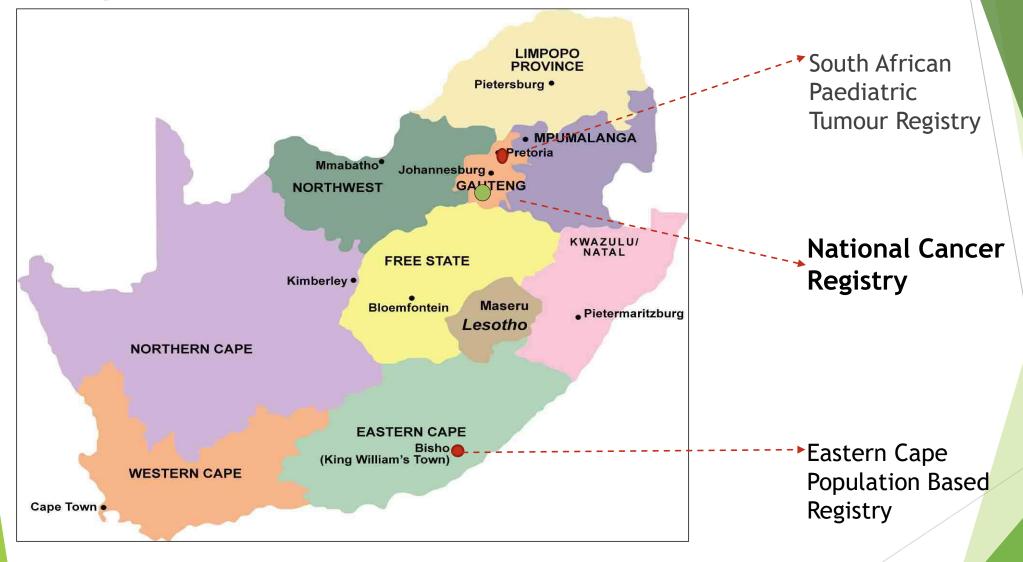
Uses of Cancer Registry Data

- Estimating current cancer incidence
- Examining long cancer trends
- Predicting future evolution of cancer trends
- Evaluating healthcare interventions over the medium/long term
 - Primary prevention evaluate success of anti-tobacco interventions
 - ► Early detection and screening
 - ► Evaluating cancer care through cancer survival

Table 2.1. Characteristics, purposes, and uses of different types of cancer registries

Registry type	Characteristics	Purpose
Hospital-based cancer registry	Collects information on all cases of cancer treated in one or more hospitals	Useful for administrative purposes and for reviewing clinical performance
Pathology-based cancer registry	Collects information from one or more laboratories on histologically diagnosed cancers	Supports the need for laboratory- based services and serves as a quick "snapshot" of the cancer profile
Population-based cancer registry	Systematically collects information on all reportable neoplasms occurring in a geographically defined population from multiple sources	The comparison and interpretation of population-based cancer incidence data support population-based actions aimed at reducing the cancer burden in the community.

Registries in South Africa



Eastern Cape Province Cancer Registry

- SAMRC Registry in former Transkei region in EC
- Initially developed to investigate the high prevalence of Oesophageal Cancer in the region
- Now fully fledged population-based cancer registry reporting its results to IARC
- 1 million people covered in 8 magisterial districts - provides data from rural populations
- Regularly reports its incidence through surveillance reports and peer-reviewed publications

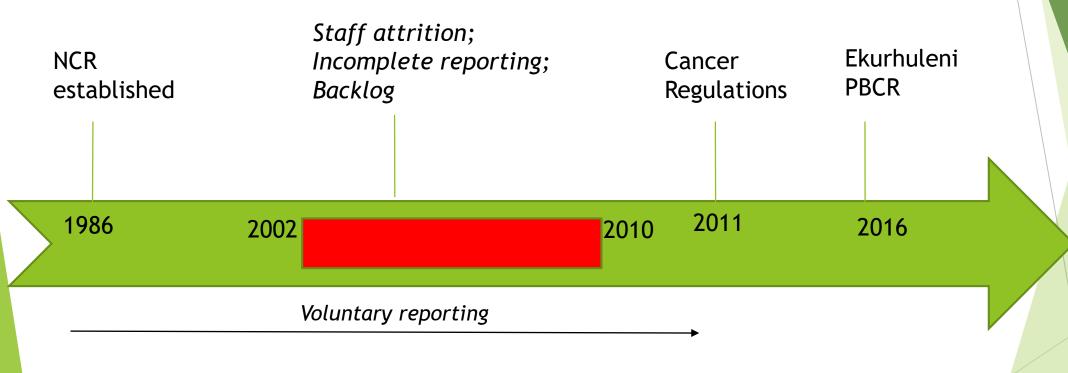
- Population structure characteristic of migrant population - excess of older women and children.
 Shortage of working age adults and men
- Disproportionally high rate of oesophageal cancer
- Scarcity of screening and diagnostic services in this area affects the rates of cancer reported
- Not networked to the NCR

South African Paediatric Tumour Registry

- Collects and reports on malignancies in individuals younger than 15 years
- Central repository for paediatric oncology units across the country and other private practitioners who see paediatric cancer cases
- Currently hosted at the University of Pretoria
- Clinically and pathologically diagnosed cases
- South African Childhood Cancer Study Group

- Under-reporting for various reasons
 - Children dying before they seek care
 - ► Failure to refer to oncology centres from where reporting occurs
 - Cancer not included in differential diagnosis
 - Treatment by adult oncologists in under-served areas
- Formal reporting of paediatric cancers important for will help clarify childhood cancer epidemiology for SA

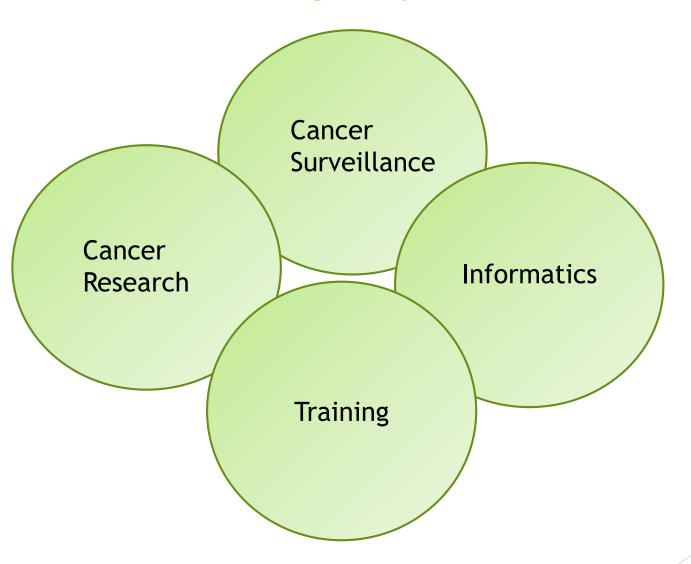
South African National Cancer Registry



Regulations Relating to Cancer Registration

- Regulation 380 of the National Health Act
 - ► Formally established the NCR as the cancer surveillance arm of the NDOH
 - Collect all cancer information for the country
 - Cancer reporting through the pathology-based registry compulsory
 - Mandated NCR to develop PBCR for the country
- A Department under the NHLS reporting to the Director of the NICD
- Directly funded by the NDOH
- Additional funding from donors grants and industry partners

National Cancer Registry

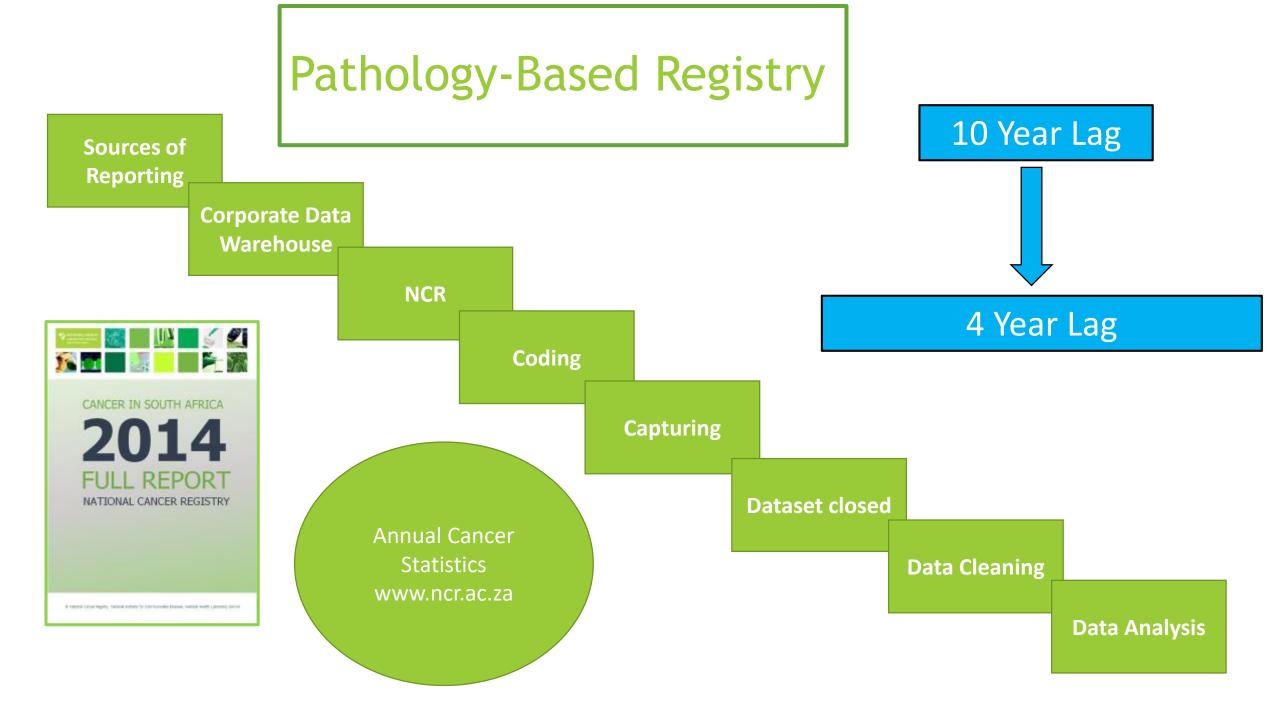


Goal of NCR Surveillance

- ► Timely and high quality cancer <u>incidence</u> and <u>mortality</u> data for:
 - ► Cancer Policy Development
 - ► Planning Cancer Programs
 - ► Monitoring and Evaluation of Cancer Interventions

PathologyBasedRegistration

Population
Based
Registration



Outcomes and Uses

- Policies Breast, Cervical, National Cancer Strategic Framework
- Advocacy groups
- Researchers international collaborators from US and Europe and local collaborators
- ► Training of students Masters and PhD
- African Cancer Research Network leverage regional and international expertise
- ► NCR is represented on the MACC
- ► Reports available at www.ncr.ac.za

Ekurhuleni Population Based Cancer Registry

- National Population Based Registry -resource intensive
- Minimum of 4 PBCR's for the South African population
- Will include cases diagnosed by clinical tests and laboratory tests
- Pilot site in Ekurhuleni funded by the SAMRC
 - ▶ 3 million inhabitants
 - Diverse ethnic groups
 - Well demarcated area
 - 6 public hospitals, 3 referral centres, 4+ private facilities providing oncology
- First year's data (2017) has been analysed
- ▶ 2080 cancers collected prostate, breast, colorectal, cervical
- Optimise data collection in this area missing reporting sources
- Shown that PBCR is feasible in local context

Future Aims

- Pathology Based Registry reduce lag time to under 3 years
 - Data seamlessly fed into the NCR application from NHLS and private laboratories
 - ► Eliminate data capturing step
 - Stakeholder feedback on data output
- Ekurhuleni Population Based Registry
 - Optimise data collection in the Ekurhuleni Region
 - Routine quality assurance methodology implemented
 - ▶ Reporting to CI5 SA cancer incidence estimates reported to IARC/WHO
- KZN Population Based Registry

Acknowledgments

- NHLS/NICD
- ▶ National Department of Health : Non-Communicable Diseases Directorate
- Campaign for Cancer
- SAMRC
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- CANSA
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- All our stakeholders
- Staff of the NCR