



Kenya's national investment in medical uses of radiation

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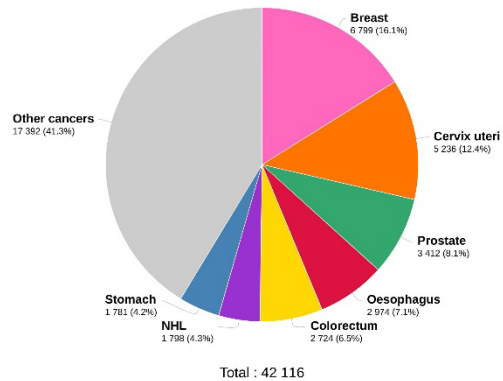


**National Cancer
Institute of Kenya**
NCI - KENYA

2022

Cancer burden in Kenya

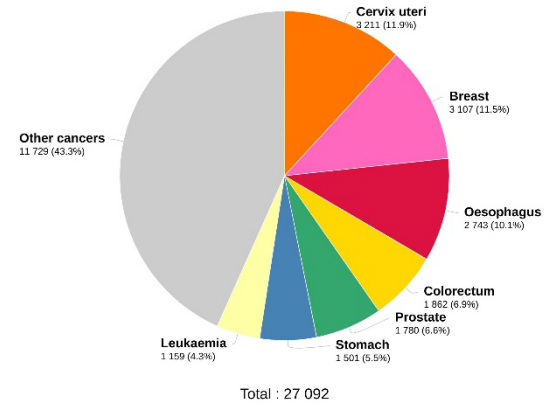
Estimated number of new cases in 2020, Kenya, both sexes, all ages



Data source: Globocan 2020
Original publication: Global Cancer Observatory
DOI: <https://doi.org/10.28380/2020.01.0001>

International Agency for Research on Cancer
World Health Organization

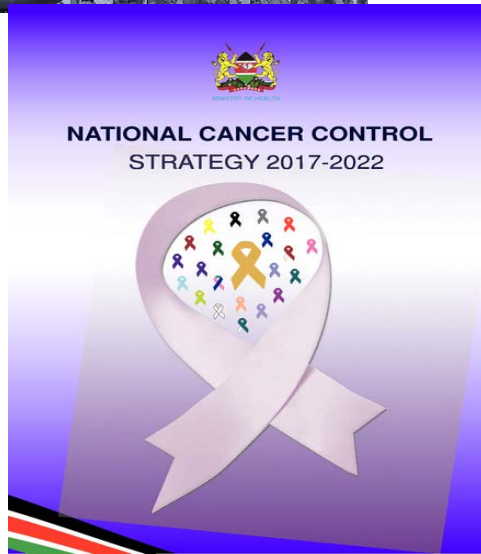
Estimated number of deaths in 2020, Kenya, both sexes, all ages



Data source: Globocan 2020
Graph production: Global Cancer Observatory
DOI: <https://doi.org/10.28380/2020.01.0001>

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Policy framework in support of cancer

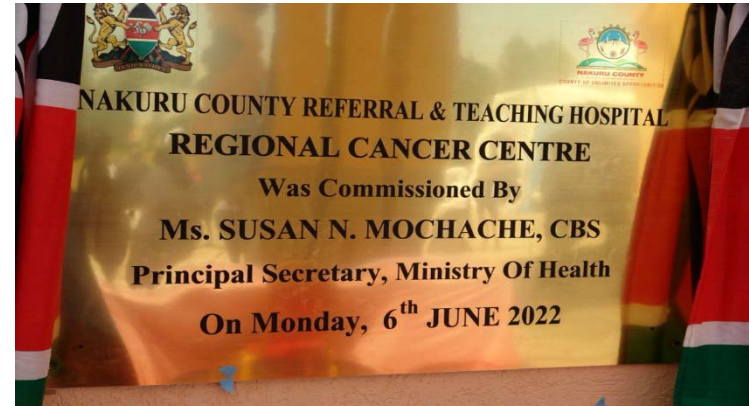


Availability of radiotherapy services

- 19 external beam machines currently operational against requirement of 42 machines (based on disease burden)
- Less than half (8/19) located in public health facilities
- It is also estimated that only about 23% of cancer patients currently access comprehensive cancer services.

Decentralized care- “Hub and spokes”

- Focus on expanding access to radiotherapy services
- Three national referral hospitals (hubs): specialized in clinical care; training and research
 - Kenyatta National Hospital
 - Moi Teaching & Referral Hospital
 - Kenyatta University Teaching, Referral & Research Hospital
- 10 regional treatment centres: Focus on early detection, diagnosis and chemotherapy
 - Three centres being promoted to comprehensive centres (radiotherapy care)
 - Government funding for infrastructure development



Centre of Excellence in Oncology Care

- Establishment of an Integrated Molecular Imaging Centre
 - Linear Accelerator
 - Brachytherapy
 - Cyclotron
 - SPECT/PET Scan
 - Stereotactic Surgery (CyberKnife)
- Supported by a 100-bed Hospitality Centre allowing clients from the entire East African region



Human Resource Development

- Local training programs established
 - Radio-oncology program
 - Medical physics
 - Radiotherapy technologists
- Government support towards oncology training
 - 20 oncology scholarships annually

Cadre	Numbers
Medical Oncologists	16
Clinical/Radiation Oncologists	19
Oncology Nurses	60
Onco-Pharmacists	12
Paediatric Oncologist	4
Surgical/Gynaecologists	15
Medical Physicists	10
Radiation Therapy Technologists	27
Nuclear Medicine Physicians	2

Key Lessons

- Strong policy framework
- Dedicated government funding towards cancer control
- Partnerships critical towards supplementing Government efforts