23rd WiN Global Annual Conference

Women in Nuclear Meet Atoms for Peace

Programme of Action for Cancer Therapy: Maximizing Investments in Radiation Medicine

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IAEA
International Atomic Energy Agency
Outline

• Drivers for global action on cancer
• Comprehensive cancer control
• Main products and services of IAEA/PACT
The growing global cancer burden

14.1m new cases of cancer globally per year

8m in low and middle income countries
57%

2012

21.6m new cases of cancer globally per year

13m in low and middle income countries
60%

2030

Source: IARC, GLOBOCAN 2012
The growing number of cancer deaths

8.2m cancer deaths globally per year

5.3m in low and middle income countries
65%

2012

13m cancer deaths globally per year

9m in low and middle income countries
69%

2030
Women’s cancers: global perspective

Global estimates female cancer cases,
Adult population (total 4,417,993)

Source: GLOBOCAN 2012 (IARC)
Breast cancer

Most common cancer in women worldwide

Source: CancerAtlas 2012
Cervical cancer

Estimates of new cervical cancer cases,
1 year prevalence (per 100,000)

Source: GLOBOCAN 2012 (IARC)
Inequity in Access to Cancer Care

An estimated shortfall of over 5,000 radiotherapy machines in LMICs
Inequity in Access to Cancer Care

Access to RT is limited in many countries by:

- Weak Health systems
- Insufficient number of radiotherapy centres and treatment units
- Lack of trained workforce
- Geography
- Lack of safety regulatory infrastructure
IAEA Expenditure on Cancer-related Projects
(1983-2014)

Europe: €74.9 million
Africa: €81.6 million
Latin America: €52.3 million
Asia and the Pacific: €51.4 million
Interregional: €19.2 million
Total Expenditure: €279.4 million

* These figures do not include IAEA's corresponding overhead costs.
Comprehensive cancer control approach

ACCESS

AFFORDABILITY

SURVEILLANCE

PREVENTION  EARLY DETECTION  DIAGNOSIS  TREATMENT  PALLIATIVE CARE

QUALITY

RADIATION MEDICINE FOR CANCER MANAGEMENT

DELIVERY

DIAGNOSTIC IMAGING  NUCLEAR MEDICINE  RADIOThERAPY
PACT

Mission:
“To fight cancer in LMICs by ensuring effective partnerships and integrating radiation medicine within a comprehensive national cancer control approach.”

- Delivers targeted services to IAEA Member States in support of comprehensive cancer control programs
- Spearheads IAEA’s strategic partnerships and resource mobilization for comprehensive cancer control
- Advocates for comprehensive cancer control on the global health and development agenda
- Raises awareness of and commitment to the role of IAEA in cancer control
PACT’s main services

- Country needs assessments / support to national cancer control plans (**imPACT review missions**)
- Targeted country support/joint programme delivery (**IAEA-WHO Joint Programme** on Cancer Control, e.g. **PACT Model Demonstration Sites**)
- Global level advocacy and guidance:
  - Advisory Group on increasing Access to Radiotherapy Technology in LMI Countries (**AGaRT**)
  - Member of United Nations Taskforce on the Prevention and Control of NCDs
- Training, capacity building (**Virtual University of Cancer Control**, targeted training workshops)
- **Strategic Partnerships** and **Resource Mobilization**
A Partnership Approach
Thank you!

cancer.iaea.org