### An Anchor to Build Self-Sustaining Cancer Cure and Care Capacity in Developing Countries Using Radiotherapy as

Seminar on Nuclear Science for Diplomats 3-5 February 2009

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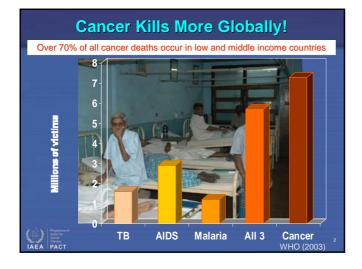
Programme of Action for Cancer Therapy

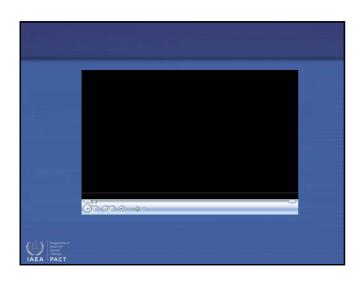
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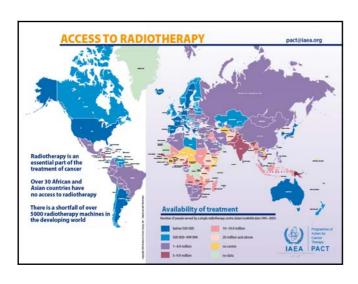
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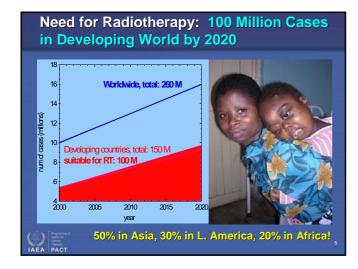
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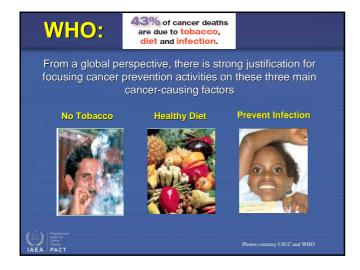






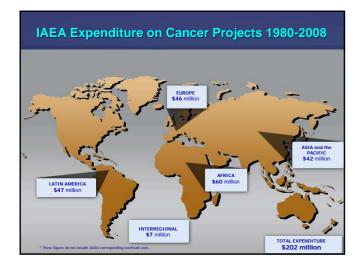
# Prevailing Situation: Patients • Lack of investment in early detection and diagnosis results in patients with curable cancers seeking treatment so late that only palliative radiotherapy can a humane death • Patients with curable breast, cervical, oral and other prevalent cancers are dying unnecessarily because past investments have not always addressed cancer comprehensively • Effective treatment requires a broad multidisciplinary and comprehensive approach that includes capacity building in cancer prevention, early detection, diagnosis and palliation



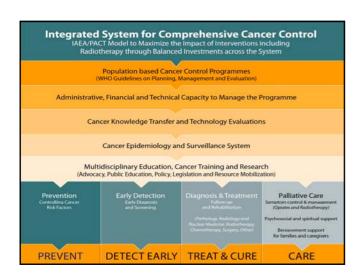


## Cooperate with its Member States to: Introduce or expand existing infrastructure and capacity in radiotherapy, in a sustainable manner Improve or accelerate widespread access to effective radiotherapy services as an essential part of multidisciplinary cancer care This doesn't mean machines alone! There's more emphasis on trained professionals and quality of radiation and clinical services

### Radiotherapy Centres • Effective and sustainable transfer of radiation technology • Suitable, appropriate and affordable technologies • Compliance at national level with safety, security and quality standards







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### Stage 1: imPACT Review

- imPACT is a joint international effort to Identify and assess a country's most pressing cancer needs so that partners and donors can effectively respond
- imPACT is multi-stakeholder, involving national authorities and public-private partners (IAEA, WHO, IARC, UICC, NCI, INCTR, ACS and others)
- imPACT reviews have been conducted, using IAEA and partner expertise, for 13 Member States:

Albania, Georgia, Ghana, Madagascar, Rep. of Moldova, Montenegro, Nicaragua, Peru, Sri Lanka, Syrian Arab Republic, United Rep. of Tanzania, Vietnam, and Yemen

- an interagency activity



### Stage 2: PACT Model Demonstration Sites (PMDS)

- building strategy to secure alliances
- Establish PMDS as an example of the value and efficacy of interagency cooperation in combating cancer
- Start with joint imPACT reviews
- capacity building in **each country**, over a 5 year period is up to €5.7M
- Initial PMDS: Albania, Nicaragua, Sri







### **Stage 3: Regional Capacity Building**

Lack of adequate human resources is a critical bottleneck!

- Establish regional reference cancer centres to train health care professionals and provide mentorship to other centres within the region
- Involve leading cancer centres, North and South, in programme development and execution (Cancer Control International Mentorship Network)
- Establish a *Virtual University for Cancer Control* relying on existing recognised centres to train multidisciplinary personnel and to encourage trainees to stay in their home countries with ongoing professional development programmes:

  - Facilitate training of multidisciplinary personnel for replacement personnel as well as creation/expansion of facilities

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### **Nobel Peace Prize Cancer Institutes**

 Nobel Fund was designated to cancer and nutrition training by the Board in 2005



- The PACT supported Nobel Peace Prize Cancer Institutes:
  - Raise public awareness about the essential role of radiotherapy in

  - Encourage capacity building by investments in national and regional cancer training networks
  - · Encourage participation of policy makers and professionals
  - through PACT Partners

    5 Special Events and 3 training





### **Building Partnerships**

- WHO/IAEA Joint Programme on Cancer Control being developed
- Formalized partnerships reached with WHO, IARC, INCTR, UICC, ACS, Tata Memorial Centre India, Univ of Oxford, OSI, PATH, Lance Armstrong Foundation, AXIOS and a dozen more underway with the private sector, academic centres and the industry
- Working partnerships with national cancer institutes and centres in Argentina, Algeria, Australia, Brazil, Egypt, France, India, Morocco, Pakistan, Peru, Philippines, Singapore, South Africa, Thailand, USA and with others under discussion

- More than 20 countries have offered their cancer hospitals and educational institutions to support PACT initiatives
  Fundraising partnership established with the US based National Foundation for Cancer Research

  Development of PACT networks and partnerships has been one of its strongest attractions



### Mobilizing Resources Public/Private Support Funds and resources valued at more than \$7M mobilized Ghana obtained \$7.5M from OPEC Fund and \$6M from BADEA as long term, low interest loans for cancer control proposal based on imPACT review A \$75M proposal for sub-Saharan Africa submitted to EU Community Counselling Services completed PACT Fundraising Study and Strategic Plan to raise \$30M for the PMDS, June 2008 PACT Website <a href="http://cancer.laea.org">http://cancer.laea.org</a> accepts direct donations A PACT **Endowment Fund** established in US with 501 (c) (3) status with NFCR Donations of 3 radiotherapy machines by MDS Nordion [Best Medical Intl. Inc.] Atomic Energy Bureau, Rep. of Korea, raises funds for PACT from Korean citizens