# Radiation Therapy Projects in IAEA/RCA



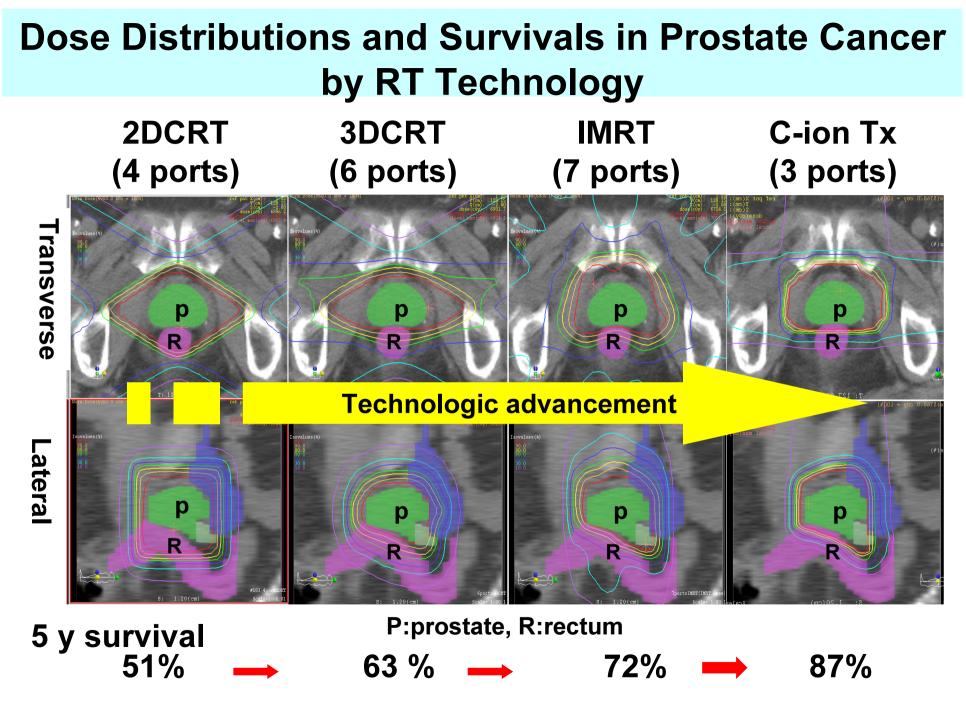
- Inter-governmental agreement established in 1972
- <u>17countries in Asia and the Pacific region</u>
- <u>Purpose</u>: to promote regional cooperation in the peaceful utilization of nuclear technology for national development in the region



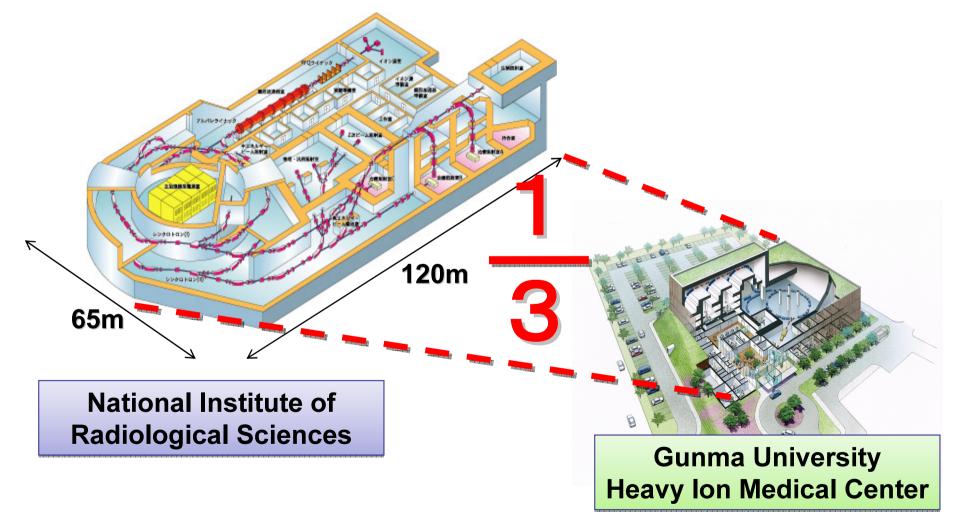
- Australia, Bangladesh, China, India
- Indonesia , Japan, Korea, Malaysia, Mongolia
- Myanmar, New Zealand, Pakistan, Philippines
- Singapore, Sri Lanka, Thailand, Vietnam



RT in IAEA/RCA T.Nakano,



## Gunma University: Down-Sizing the Carbon Ion Therapy Facility



The IAEA works to improve outcomes for cancer patients in developing countries

#### **ACCESS TO RADIOTHERAPY**

Radiotherapy programmes offered by the IAEA are an essential part of the treatment of cancer

Programme of

Action for Cancer Therapy **PACT** 

IAEA

There is a shortfall of over 5000 radiotherapy machines in developing countries

IAEA's **PACT** builds partnerships to fight the global cancer epidemic

RT in IAEA/RCA T.Nakano,

1-4.9 million

5–9.9 million

**Availability of treatment** 

below 500 000

500 000-999 999

Number of people served by a single radiotherapy centre (latest available data 1995–2003)

10-19.9 million

20 million and above

WISHALL ISLANDS

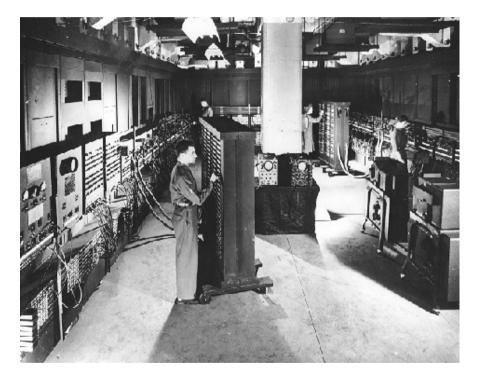
no centre

no data

#### Recent RCA Projects relating the Issue of Cancer Control in the Region

- RAS/6/040: Improvement in Quality of Brachytherapy for Frequent Cancers in the Region
  - 2005-2008, 130 professionals were trained
- RAS/6/048: Application of 3D Radiotherapy for Predominant Cancers in the RCA region
  - 2007-2009, 71 professionals were trained more by National Training Courses
- RAS/6/053: Improving Image Based Radiation Therapy for Common Cancers in the RCA Region
  - 2010-2014 (On-going), Just started
- RAS/6/042: Tumour Imaging Using Radioisotopes
  - 2005-2007, 88 professionals trained in the RTCs, and at least 3340 by National Training Courses.
- RAS/6/038: Strengthening Medical Physics through Education and Training
  - 2003-2012 (On-going), training modules developed

#### The World's First "Computer" (1946)







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#### summary

- The radiotherapy technology will continue to improve.
- It is important to continue training personnel as well as providing infrastructure for developing countries.
- The radiation therapy is the most economical and effective solution of cancer problems in developing countries.
- IAEA/RCA will continue trying its best to contribute significantly for fighting against cancer





### Thank you for your attention!

