International Atomic Energy Agency Scientific Forum

A Decade of Action on Cancer Control and the Way Forward



17-18 September 2019

Vienna International Centre Board Room D, C Building, 4th Floor

The Experience of the Republic of Korea in Working With the IAEA to Fight Cancer in Developing Countries

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President, KIRAMS



KOREA INSTITUTE OF RADIOLOGICAL & MEDICAL SCIENCES

Inequity in Access to Cancer Care

Radiotherapy Coverage



Source: IAEA PACT, Cancer by the Numbers (2017)

Positron Emission Tomography (PET) Units



Source: WHO, Global Maps for Diagnostic Imaging (2014)



Financing Partners in Fighting Cancer



Ms. Lisa Stevens N Director of PACT T

Ms. Mi-Ok Moon The 1st Vice Minister, MSIT, ROK

Mr. Cornel Feruta Acting Director General of IAEA



Ms. Mi-Sook Kim President of KIRAMS

Ms. Lisa Stevens Director of PACT

- Republic of Korea has donated EUR 665,000 to PACT since 2007.
 - Government : ~ USD 30,000 / year (since 2011)
 - Public donation through Korea Nuclear International Cooperation Foundation (KONICOF): ~ USD 20,000 / year (since 2007)
 - KIRAMS support IAEA and PACT's program in Asian-pacific area

Partnerships Supported by Korean Government



1963 Launched as Radiation Medicine Research Institute
1986 First Cyclotron in Korea
2002 First CyberKnife in Korea
2003 First PET/CT in Korea
2007 Reorganized as Korea Institute of Radiological & Medical Sciences



Regional Projects Led by KIRAMS

• Member States of Asia & the Pacific



• IAEA/RCA Regional Projects

RAS 6065 (2012-2015)	Application of Stereotactic Body Radiation Therapy (SBRT)	
RAS 6076 (2014-2016)	CT cancer staging process	
RAS 6085 (2016-2019)	SBRT for frequent cancers	
RAS 6093 (2019-2022)	Imaging modalities in radiology & nuclear medicine	
Regional Training Courses 309 Trainees		

Expert Missions	14 Missions
Regional Training Courses	309 Trainees

Capacity Building Through Training

• Regional Training Courses & Fellowship Training









• 7 Regional Training Hubs



SBRT Interest Group



Feedback from Trainees and Trainers for Sustainable Future

Background technical level differences

- Small group training
- Personalized on-the-job training system

Multinational group of trainees

• Developed into a regional network

Need-oriented training topics

• Enhance motivations of individuals and project outcome



Major Achievements of the Projects

Sri Lanka – National Cancer Institute of Maharagama

• First Implementation of Stereotactic Body Radiotherapy





Mongolia – National Diagnosis & Treatment Center

 First establishment of the Nuclear Medicine Department





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Thank you!















RCA

Economic Development Cooperation Fund

FNCA

orum for Nuclear Cooperation in Asia

ASSOCIATION OF SOUTHEAST ASIAN NATIONS



