## **Medical Imaging and Therapy** in Cancer

Rethy K. Chhem

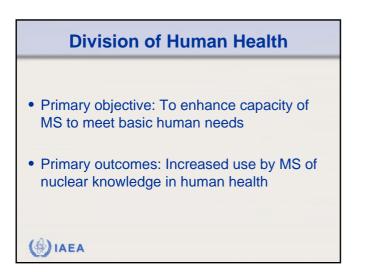
# **Division of Human Health**

Department of Nuclear Sciences and Applications

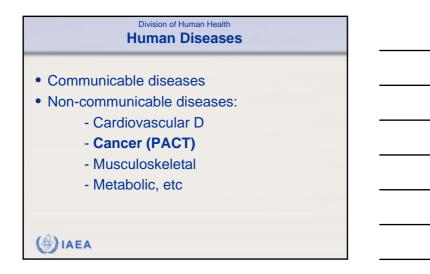


International Atomic Energy Agency





	Division of Human Health <b>4 Sections</b>
1.	Nuclear Medicine
2.	Dosimetry and Medical Radiation Physics
3.	Applied Radiation Biology and Radiotherapy
4.	Nutritional and Health-related Environmental Studies
(	IAEA



### Division of Human Health Research Building capacity in research through Coordinated Research Projects, with a few leading to a doctoral degree in collaboration with academic partners

### Division of Human Health Services

- Dosimetry: Accurate measurement of radiation exposure
- QA of equipment
- Good practice of medical imaging and radiotherapy in hospital settings,
- etc...

### Division of Human Health Education

Goals: Building capacity in nuclear knowledge for HH through

- Seminars and workshops
- International, regional conferences
- Teaching materials
- Technical and scientific publications

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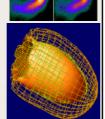
### Division of Human Health Nuclear Cardiology

### **Coronary Artery Disease**

- Diagnosis
- Severity
- Risk stratification
- Prognosis

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Response to treatment



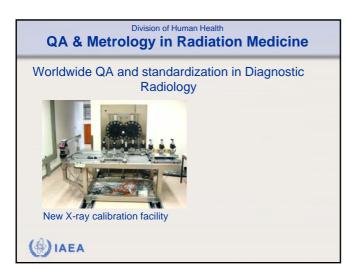
Division of Human Health QA & Metrology in Radiation Medicine

- Radiotherapy

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- Medical Imaging (NM and Radiology)



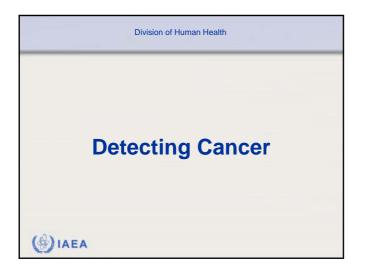






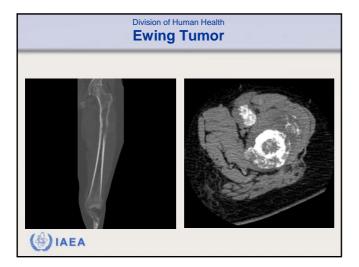


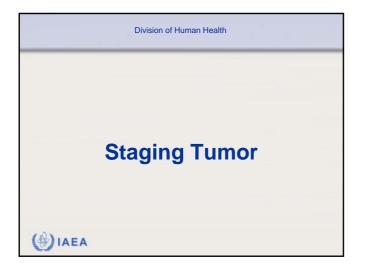


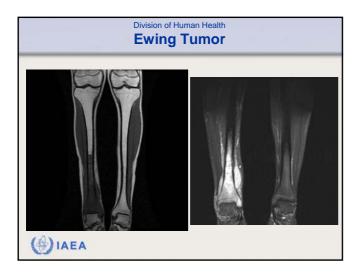




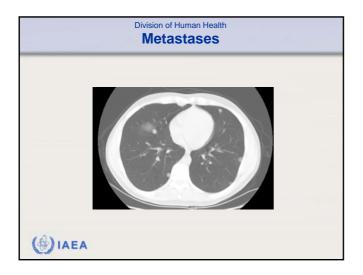






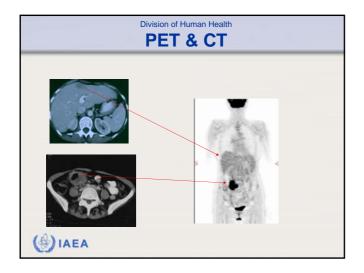




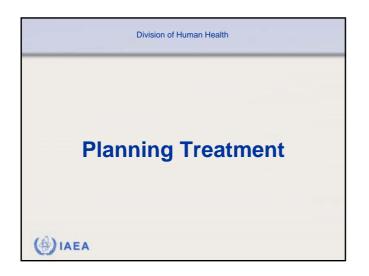


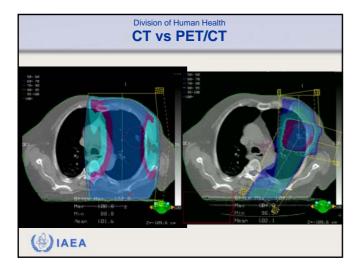






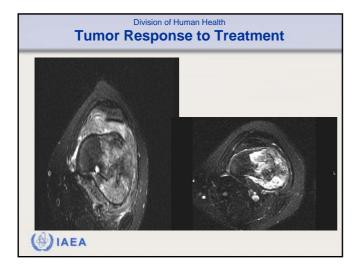








### **Response to Treatment**



Division of Human Health Medical Imaging and Nuclear Technology Cancer

 Accurate detection, staging and treatment planning using nuclear knowledge increase survival rate and enhance life quality of cancer patients



Division of Human Health	
Thank you	

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