



Support to Quality Improvement and Safety in Medical Physics Services

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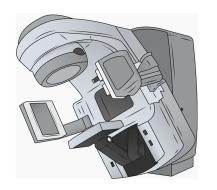




Radiation Medicine

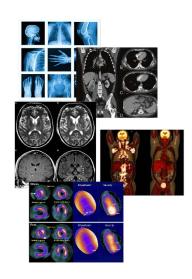
From crude beginnings more than 100 years ago,

Diagnostic radiology (DIR),





Radiation Therapy (RT)



Have all evolved into advanced techniques that are delivered with complex technologies.



Quality in Radiation Medicine



IAEA initiatives to support external audits in RT, DIR and NM



Quality in Radiation Medicine

The key reponsibiliy of Medical Physicist

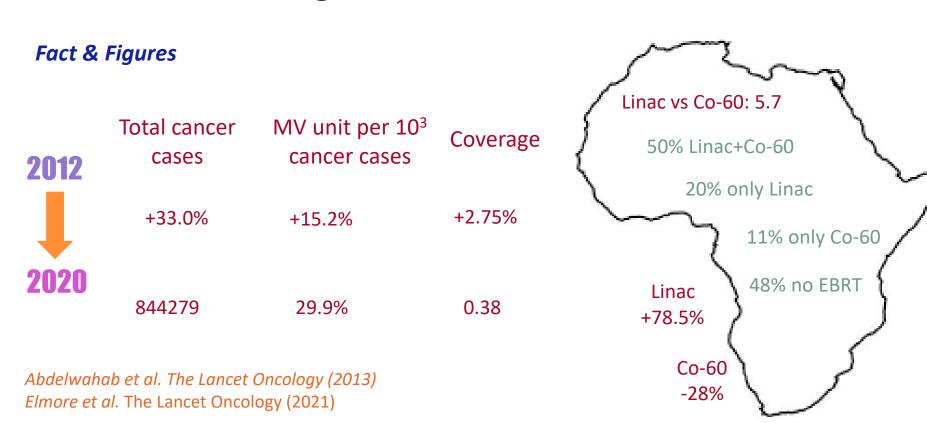


Getting the right dose to the right place





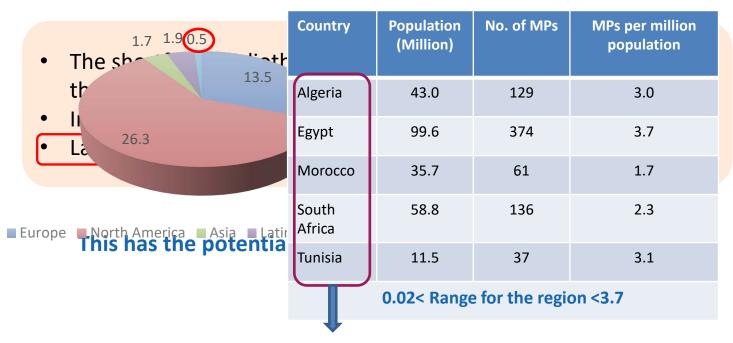
Regional situation: Africa





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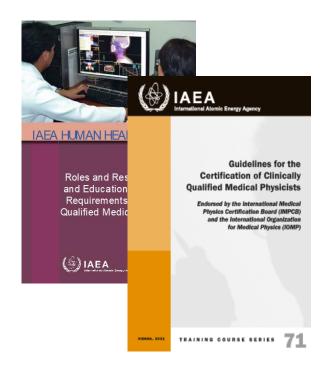
MPs per million population for different regions



79% of MV units of the region



Regional situation: Africa





MPs classified under group 2111 "Physicists and Astronomers"; a specific note was added, to reflect the role of MP in health care.

Much effort remains to be made at the level of MSs for the recognition of the MP as a health professional



Take on the challenge

How to overcome this situation

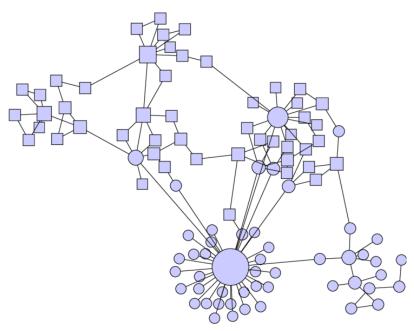


IAEA support MSs' fight against cancer using nuclear and nuclear-related techniques

- Support of cancer radiotherapy treatment and diagnostic imaging projects and HR development.
- Development of guidelines; databases;
- Providing a quality assurance framework and review missions
- Providing technical, advisory and dosimetry laboratory services
- Educational and research initiatives.



IAEA Collaborating and Anchor Centres



Assist the IAEA by undertaking original research and development and training relating to nuclear science, technologies and their safe and secure applications.



Collaborating Centres network



IAEA Collaborating and Anchor Centres

Promote IAEA Collaborating and Anchor Centres to fight cancer in Africa.



To participate in scientific and technical backstopping by providing expertise, participating in relevant research, organizing training courses, hosting fellowships and scientific visits, etc



Rays of Hope to raise Hope in Africa



Rays of Hope will integrate the IAEA's expertise to support MSs in the diagnosis and treatment of cancer using radiation medicine.

Rays of Hope will build or strengthen radiation safety legislation and infrastructure and provide quality control, guidance, training and equipment.

Collaborating Centre scheme helps reach important targets of the United Nations' Sustainable Development Goals

For a World without fear of cancer