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

Radiation safety in diagnostic imaging in Egypt: 10 years of Egyptian experience and IAEA support

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Egyptian Atomic Energy Authority



History of cancer and cancer control

- The <u>first world documented</u> <u>diagnosis of a case of cancer</u> was registered by the ancient Egyptians, 1500 b.c.
- □ The <u>first cancer surgery</u> in the world (removal of the breast).
- The first to identify the threat of cancer and state that it is a <u>serious</u>
 <u>disease that has no treatment.</u>





The biggest changes in the use of diagnostic imaging in Egypt in the last decade

- **G** Egypt's diagnostic imaging device market is the second
 - largest in the Middle East region.

Digital

Mammography

PET/CT

- Medical diagnostic equipment increased in Egypt the last
 10 years (6 folds).
- **Medical imaging is an <u>amazing technology</u>**, but the overuse,

Interventional

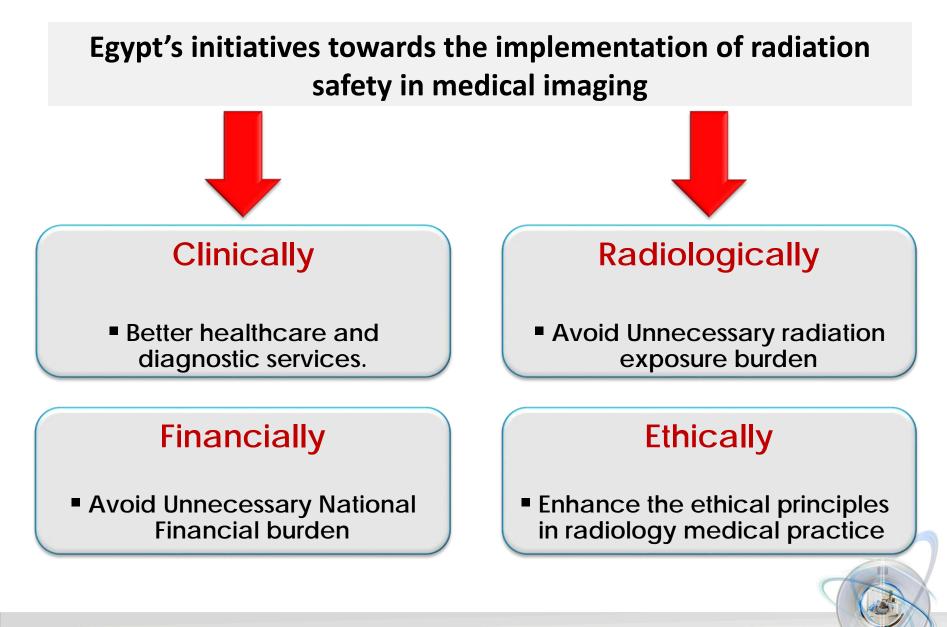
No surgery

like other things, can be too much of a "good thing."









IAEA Technical meetings on radiation safety in Medicine

Guidelines on the appropriate use of imaging



Dose Reference Levels/Dose tracking



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Egypt's actions towards radiation safety in medical imaging





Novel National Committee – 5 Years strategic planning- 4 model centers – Adoption of guidelines & DRLs



Cairo Uni. Faculty of Medicine



Misr Uni. For Science and Technology hospitals



Ain Shams Faculty of Medicine



Armed Forces College of Medicine

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Egypt's achievements in radiation safety in diagnostic imaging

National Diagnostic Reference Levels in CT

Supporting African IAEA regional TC project 42 countries

2019-2020

Establishment of national pediatric levels

Establishment of the Clinical Imaging Guidelines

Supporting the mission of Arabsafe -Afrosafe Innovation (2019) Occupational dosimeter and dose management systems



IAEA International Safety Standards

IAEA Safety Standards for protecting people and the environment

Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

Jointly sponsored by EC, FAO, IAEA, ILO, OECD/NEA, PAHO, UNEP, WHO

General Safety Requirements Part 3 No. GSR Part 3

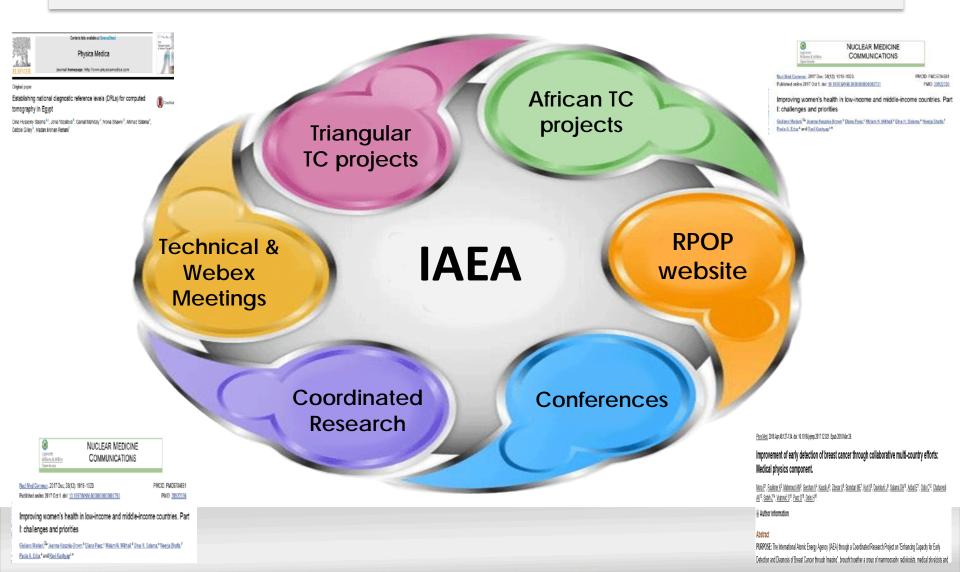
IAEA: Bonn Call for Action



0 Actions to Improve Radiation Protection n Medicine in the Next Decade



Egypt's cooperation and IAEA support





Elaborating Strategy Meetings





Radiation Protection in Medicine conference





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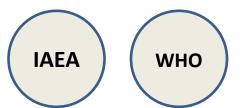


ISRQSA News - July 2017



Egypt's proactive leading steps in implementation of imaging guidelines











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Egyptian Women Scientists



Women in Nuclear IAEA-GC TC Africa 2019 Women in Focus European Congress of Radiology 2019

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