Enhancing access to medical uses of radiation globally safely and securely

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Medical uses of IR are of key importance for cancer treatment

one mean, several goals
Major progress this last decade in the fight against cancer

19.3M new cases of cancer diagnosed each year worldwide (2020)

50% of cancer patients require radiotherapy

50% survival at 5 years and 38% are cured

Tackling the burden of cancer requires:

• a multi-sectoral, multidisciplinary approach,
• an equal access to medical uses of radiation globally safely and securely is central.
Principle of Patient Radiation Protection:

The Two Pillars

JUSTIFICATION  OPTIMISATION  LIMITATION

From ICRP Publication 105 “Radiological Protection in Medicine”
Defence in depth in medical radiation protection for a safely and securely use of IR

- Anticipate new technologies
- Assess the risk
- Experience feedback, epidemiology survey
- Face unexpected situation

Stakes for radio-oncology

- Complex socio-technical system
- Risk: technologies, organization, procedures, professional
Emerging issues according to medical challenges in relation with risks

**Participatory Medicine**: Risk perception and communication to the patient.

**Equality access of care and dissemination of techniques**: IAEA initiative "Rays of Hope"
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