Aims and Benefits of Audit by Specialty: Nuclear Medicine

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Disclosures

• I do not have any conflict of interest to disclose
What is Nuclear Medicine?

- A **multidisciplinary** field in medicine in which medical specialists (nuclear medicine physicians, physicists, radiochemists, radiopharmacists and technologists) collaborate.

- Using medical **radioisotopes** for diagnosis and therapy.

- **Diverse portfolio** of clinical applications: patient referrals from (almost) all other clinical specialities (oncology, cardiology, infectious diseases, neurology, the surgical disciplines, etc. etc.).

- Large **diversity of technologies**: PET/CT, SPECT/CT, radioligand-based therapies.
Nuclear Medicine and “Standards for good medical radiological procedures” according to the EU-BSS definition

• The only specialty that uses open radioactive sources in medicine

• The challenge of working with radioisotopes with short half-lives, the need to produce many radiopharmaceuticals on-site

• The challenge of generating evidence levels for novel radiopharmaceuticals, especially for diagnostic radiopharmaceuticals
Nuclear Medicine and “Standards for good medical radiological procedures” according to the EU-BSS definition

- The use of modern devices and the optimization of procedures and protocols
  - increased sensitivity,
  - full dynamic information over a prolonged period of time,
  - decreased radiation burden

- Justification of the use of ionizing radiation: we take it very seriously!
The example of **THERANOSTICS** in Nuclear Medicine: providing the full cycle of diagnosis, personalized treatment selection, tailored precision therapy and follow-up

More than 75 years: our roots in imaging and treatment of thyroid cancer patients
The example of **THERANOSTICS** in Nuclear Medicine: providing the full cycle of diagnosis, personalized treatment selection, tailored precision therapy and follow-up

Practice-changing innovation:

PSMA targeting for diagnosis and therapy in prostate cancer patients
Nuclear Medicine and Clinical Audit

- ... structured review of procedures ...
- ... improve the quality and outcome of patient care ...
- ... practices, procedures and results are examined against agreed standards ...
- ... modification of practices, where appropriate ...
- ... application of new standards if necessary ...

U-BSS definition of CLINICAL AUDITS: 2013/59/EURATOM Chapter II, Article 4, (12):
Thank you for your attention