





Wim J.G. Oyen

President

**European Association of Nuclear Medicine** 

president@eanm.org

### **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



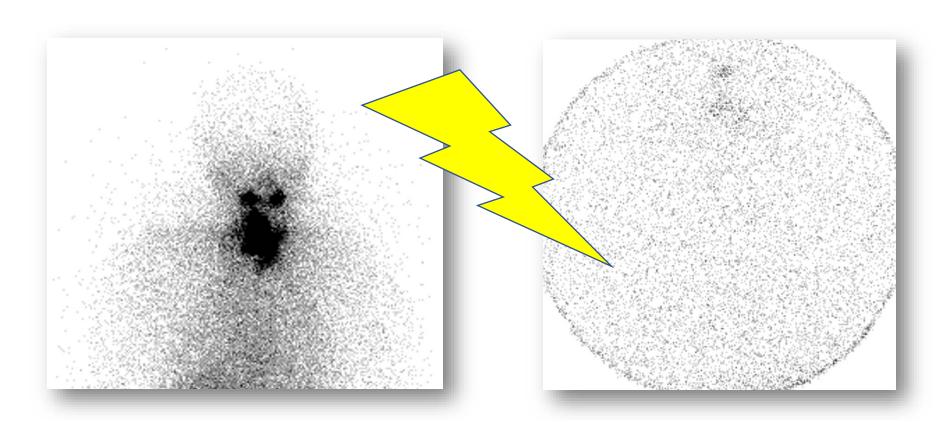
## Nuclear Medicine and "Standards for good medical radiological procedures" according to the EU-BSS definition

- 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!



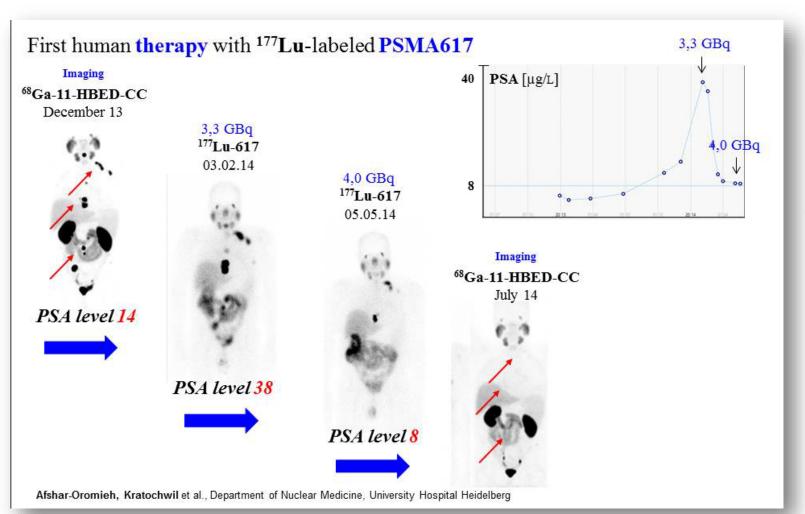
# The example of **THERANOSTICS** in Nuclear Medicine: providing the full cycle of diagnosis, personalized treatment selection, tailored precision therapy and follow-up



More than 75 years: our roots in imaging and treatment of thyroid cancer patients



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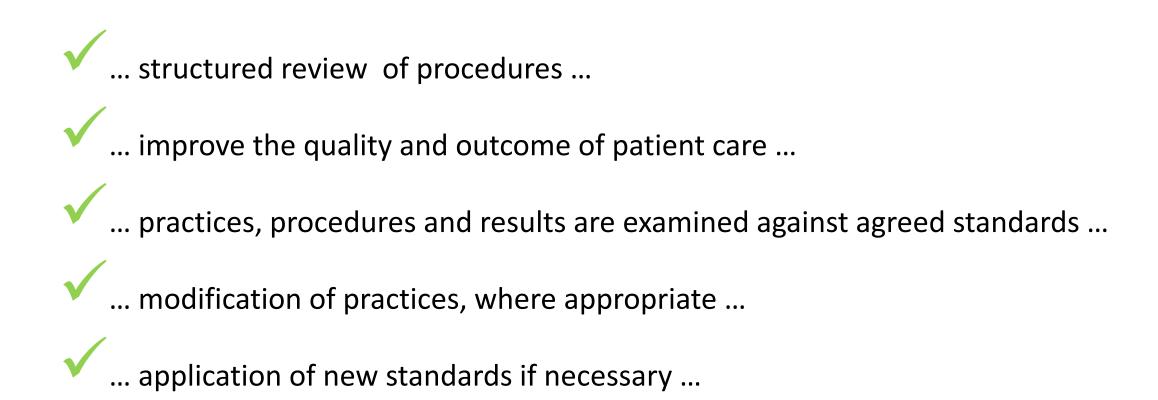


Practice-changing innovation:

PSMA targeting for diagnosis and therapy in prostate cancer patients



#### **Nuclear Medicine and Clinical Audit**





### Thank you for your attention



