



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

**EU Scientific Seminar 2019
Developments in nuclear medicine –
new radioisotopes in use and
associated challenges**

**Round table discussion:
Policy implications and research needs
- 3 IAEA resources -**

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SAFRON for Nuclear Medicine



Home Process Steps Incident Reports Documents and Links Registrations Statistical Reports Admin Help

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Safer use of radiation in radiotherapy through learning and reporting
SAFRON aims to enable global shared learning from safety related events and safety analysis in order to improve the safe planning and delivery of radiotherapy.

Featured Incident Reports
HDR vaginal cylinder brachytherapy treatment delivered to incorrect location
Patient received first of three intended deliveries of HDR vaginal cylinder brachytherapy on 6/19/2014. After the vaginal cylinder was inserted, a planar digital x-ray image of the placement was...

Featured Documents & Links
Report No. 167- Guidelines by the AAPM and GEC-ESTRO on the use of innovative brachytherapy devices
Although a multicenter, Phase III, prospective, randomized trial is the gold standard for evidence-based medicine, it is rarely used in the evaluation of innovative devices because of many practical...

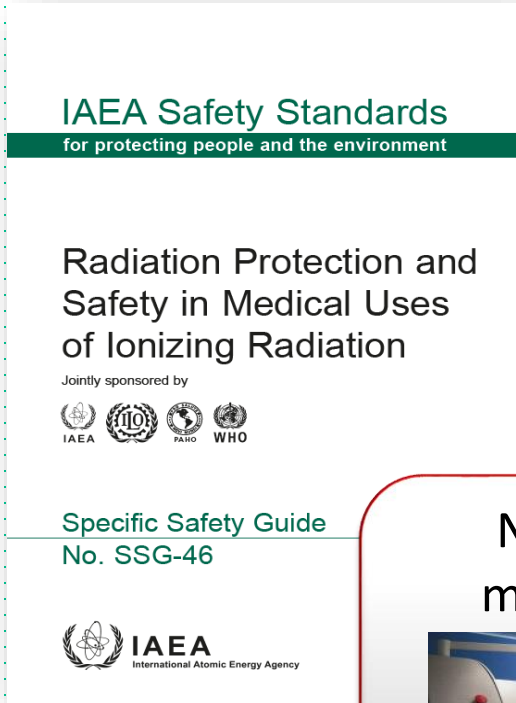
Latest updates

- 01 Dec 2018: The Bad Apple Theory
- 01 Oct 2018: Safety Culture
- 01 Mar 2018: Learning from new misses
- 01 Aug 2018: Check, review and report
- 01 Feb 2017: E-learning on Safety and Quality in Radiotherapy

Latest News
08 Jan 2018
The French Nuclear Safety Authority (ASN) newsletter is online
ASN newsletter "Making the patient a partner in treatment safety" for experience feedback in radiation therapy is now available

- Importance of **feedback on incidents and near misses** relating to both existing and new radioisotopes in medicine
- Ongoing software development of **SAFRON** voluntary safety reporting and learning system, developed by IAEA, to also **include events in therapeutic nuclear medicine**

New Safety Guide on Medical Uses



- **Specific Safety Guide SSG-46**
 - Published October 2018
 - Jointly sponsored by IAEA, WHO, PAHO, ILO
- **Nuclear Medicine**
 - Provides recommendations on radiation protection in nuclear medicine pertaining to medical exposure, occupational exposure, and public exposure
 - NB! Justification level 2 when introducing new technologies and techniques

Bonn Call for Action



BONN CALL FOR ACTION

10 Actions to Improve Radiation Protection
in Medicine in the Next Decade

- **Bonn Call for Action #5:**
 - Shape and promote a strategic research agenda for radiation protection in medicine
- **Nuclear Medicine explicitly mentioned**
 - “Promote research to improve methods for ... patient dosimetry when using unsealed radioactive sources”