INTERNATIONAL ATOMIC ENERGY AGENCY Establishing a Sustainable Safety Culture

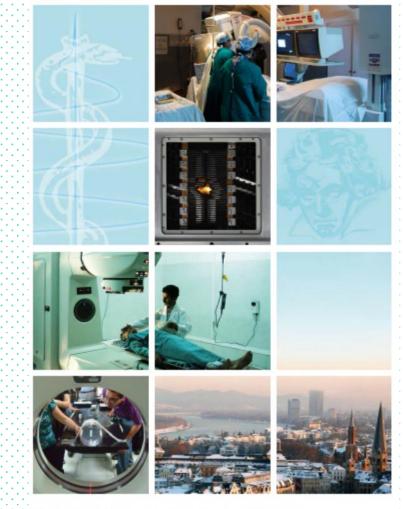
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30 November 2015



The Bonn Call-for-Action

Joint position statement with WHO, highlights ten main actions, and related subactions, that were identified as being essential for the strengthening of radiation protection in medicine over the next decade

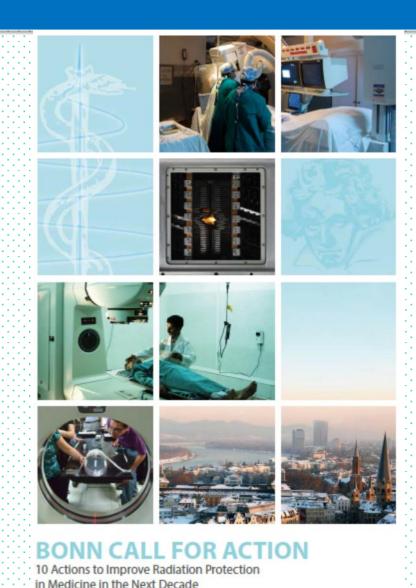


BONN CALL FOR ACTION 10 Actions to Improve Radiation Protection in Medicine in the Next Decade



The Bonn Call-for-Action

- Enhance the implementation of the principle of justification
- Enhanced the implementation of the protection and safety
- Strengthen manufacturers' role in contributing to the overall safety regime
- Strengthen radiation protection education and training of health professionals
- Shape and promote a strategic research agenda for radiation protection in medicine
- Increase availability of improved global information on medical exposure and occupational exposure in medicine
- Improve prevention of medical radiation incidents and accidents
- Strengthen radiation safety culture in health care
- Foster an improved benefit-risk-dialogue
- Strengthen the implementation of safety requirements globally





Request from Member States

Regional Coordinator's meeting 4-8 May 2015 6 member states requested national training on safety culture in order to promote radiation protection and safety of patients





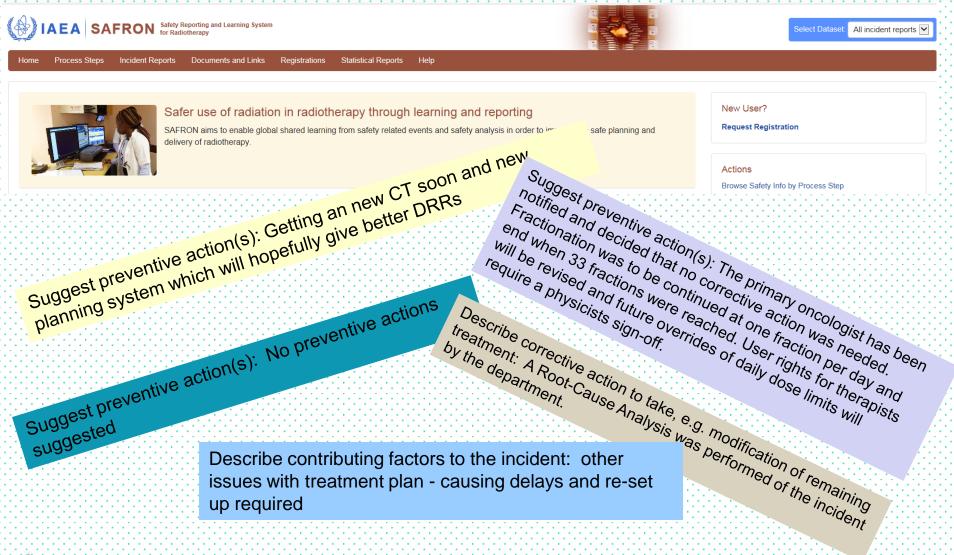




- Continue to see lack of safety culture in reports, contributing factors, and corrective actions
- Human error continues to the cause of the error without consideration or investigation as to why the person behaved in such a manner
- Lack of understanding on the purpose and how to perform a root cause analysis and determine corrective action to mitigate future incidents

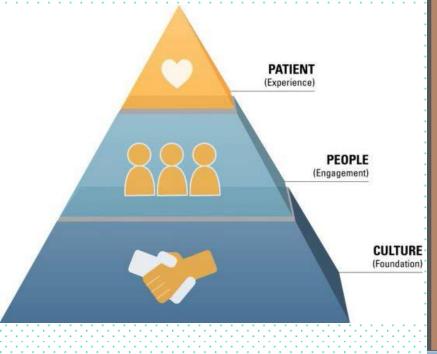








October 2015 Safety Culture





SAFRON https://pop.izea.org/SafRON/Aefault/Caspa



A Newsletter on Patient Safety in Radiotherapy October 2015 SAFETY CULTURE

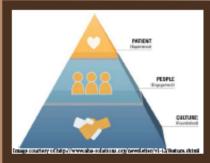
Radiation Protection and Safety o the Radiotherapy Patients

Patient safety is essential to assure patient care. Patient care is a component of the treatment provided. Research has indicated that the interaction between healthcare professionals and patients contribute to improvements in the patient health in a shorter period of time. Safety is a continuous process. With every new patient, staff, or equipment acquisition there will be new safety challenges. Events reported in SAFRON provide an opportunity to discuss the needs for both radiation safety and patient safety. The IAEA has promoted the importance of safety through standards, guides, and reports. For radiotherapy facilities these standards, guides, and reports provide a baseline to build a robust safety system.

Why the Focus of Patient Safety?

As long as humans are involved in patient care, we will continue to have safety concerns. This is not always a bad situation, as research has indicated that interaction between healthcare professionals and patients contribute to improvements in patient health in a shorter period of time¹. Patients like the personal attention they receive from radiation therapists, nurses, medical physicists, and radiation oncologists. But human error is the largest contributing factor to events in radiotherapy. A strong safety culture is the foundation for improving patient safety and even treatment outcomes. Yet we tend not to focus on building a strong foundation for patient safety. (continue on page 2)

 Green, O., International Journal of Quality in Health Care, Patient controdness and quality improvement efforts in hospitals: rationale, measurement, implementation, <u>http://intehs. cofferdjournals.org/content/23/5/31.full</u>



What are the Professionals saying?

"For the most part, radiation therapy is very safe. Nevertheless, there are recognized risks. Further, the interactive complexity of modern practice makes it challenging predict where problems will occur. Presently, much of the emphasis on making radiation therapy safer is in the realm of technical solutions: medical physics, computer software, etc. These initiatives are necessary and will certainly help to address the safety issues. This approach alone, however, will not bring us to the level of reliability we strive to achieve. We can and should do better, and the way to do that is to apply lessons from engineering/industry. We must consider the leadership/ administrative component, the workplace and workflow component, as well as the people component, to minimize errors. We must use Lean improvement principles to motivate and enable all colleagues to be actively involved in assessing and improving their own systems -- This will increase safety mindfulness and help to create a "safety culture." It is only through this multipronged approach that we can become the highly reliable organization that our patients deserve."

Lawrence Marks, radiation oncologist co-author of the book titled Engineering Patient Safety in Radiation Oncology: University of North Carolina Pursuit for High Reliability and Value Creation

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