



Update on Proposed Changes Related to Permanent Implant Brachytherapy

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Purpose

To provide ACMUI with an update on the more recent developments related to staff's proposed changes to the medical event definition for permanent implant brachytherapy

Background

- July 25, 2008: SRM-SECY-08-0080
- May 18, 2010: SECY-10-0062
- July 8, 2010: Commission Meeting
- August 10, 2010: SRM-SECY-10-0062
- During the Summer of 2011 staff held two public Workshops

Background

- On Tuesday, February 7, 2012, ACMUI held a public teleconference and endorsed the ACMUI Permanent Implant Subcommittee Report (revised) and provided NRC staff with recommendations for changes to the medical event definition for permanent implant brachytherapy
- April 2012, NRC staff provided the Commission the staff's recommendations for changes to the medical event definition for permanent implant brachytherapy

ACMUI Recommendations

- For the target:
 - Greater than 20% of the sources fall outside of the treatment site

ACMUI Recommendations

- For normal-tissue:
 - the dose to at least 5 contiguous cm³ exceeds 150% of the dose prescribed to the CTV or PTV; or
 - For intra-target structures, the dose to at least 5 contiguous cm³ exceeds 150% of that structure's expected dose, based on the approved pre-implant dose distribution

ACMUI Recommendations

- Using the wrong radionuclide;
- Using the wrong activity or source strength (+/- 20%) as specified in the written directive;
- Delivered to the wrong patient;

ACMUI Recommendations

- Delivered directly to the wrong site or body part;
- Delivered using the wrong modality; or
- Using leaking sources

ACMUI Recommendations

- The authorized user should provide a statement attesting that the implanted sources have been placed in accordance with the final planned distribution.

NRC Staff Recommendations

- NRC staff incorporated all of the ACMUI recommendations in the staff's recommendations to the Commission with one exception

NRC Staff Recommendations

- The recommendation from the ACMUI revised final report that was not incorporated into the staff's recommendations involves the possible “bunching” of seeds in the treatment site

Next Steps

- Commission Meeting on April 24, 2012
- Commission Votes
- SRM



QUESTIONS?

Acronyms

- ACMUI – Advisory Committee on the Medical Uses of Isotopes
- ME – Medical Event
- SECY – Office of the Secretary of the Commission
- SRM - Staff Requirements Memorandum