

NRC MEDICAL RULEMAKING WORKSHOP, June 20, 2011

Medical Event Definition Associated with Permanent Implant Brachytherapy AAPM Comments

*Herbert W. Mower, Sc.D.
DABR, DABMP, FAAPM, FACMP*

Prostate Brachytherapy

- Should the regulations have a specific section for prostate implant brachytherapy rather than combined with all other permanent implant brachytherapy?

*AAPM Response: **NO!**. It should apply to any permanent implant brachytherapy.*

Prostate Brachytherapy

- Should the criterion for defining an ME [Medical Event] for permanent implant brachytherapy be activity-based only?

*AAPM Response: **YES!** Written directive should be at the time of the implant, prior to the patient being discharged from the facility. Relates to 'real time' planning in the OR. Pre-plan is a 'guidance' for ordering and not for anything else.*

Prostate Brachytherapy

- Should the criterion for defining an ME [Medical Event] for permanent implant brachytherapy be dose-based only?

AAPM Response: No. Not dose based but activity-based.

Prostate Brachytherapy

- Should the criterion for defining an ME for permanent implant brachytherapy be a combination activity- and dose-based criterion?

AAPM Response: No. Not dose based but activity-based.

Prostate Brachytherapy

- Should the NRC require training on how to identify MEs?

*AAPM Response: **NO!** Training, in general, part of licensee's ALARA training program.*

Prostate Brachytherapy

- Many professional organizations have recommended standards for when a dose to the treatment site for permanent prostate implants is assessed. The NRC staff is considering adding a time requirement to the regulations for this purpose. What is the appropriate time frame?

*AAPM Response: **NO** – Do NOT add a time frame to the regulations.* This can vary from same day to one month depending on patient availability for any individual licensee.

Prostate Brachytherapy

- Added AAPM Comments:
 - As we go forward, recommend we use the term ‘source strength’ rather than ‘activity.’
 - This is consistent with current standards of professional and international scientific organizations.