

Abstract: NeSA202100oral-16: Recent Advancements in Radiation Dosimetry Methodologies for Late Effects Studies with Focus on Cardiac Disease
Time: 4:00-4:12 PM

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Cancer treatments and supportive care have improved in the last few decades. As a result, more than 80% of children treated for cancer live five years or more after treatment. Radiation is a key component of successful cancer therapy as nearly 50% of all cancer patients in the U.S. receive radiation therapy as part of their treatment. However, with radiotherapy, there is also the risk of developing long-term side effects (late effects). The severity of these effects ranges from simple discoloration of the skin to second cancer and cardiac disease. This presentation will provide a short overview of late effects and recent advancements in radiation dosimetry methodologies with a focus on cardiac diseases.

Keywords: Late Effects, Cardiac Toxicity, Radiation Therapy, Computational Phantom, Childhood Cancer