

AbstractID: 8841 Title: Dosimetric characteristics of a high energy photon beam activated InSituSphere™

We report on the preliminary results of investigating the dosimetric characteristics of a non-radioactive gamma emitting implantable spherical device. This device, named "InSituSphere™," is designed to be activated in-situ using the photon beam of a high-energy linac. With a dose uniformity index (DHI) of 0.75, InSituSphere™ is found to yield a uniformity in treatment dose comparable to that delivered with MammoSite RTS. However, as expected InSituSphere™ activation improves PTV coverage by the 100% line.

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