

3481

An Improved Irradiation Technique for the Treatment of Internal Mammary

Cheon Hee Lee^{1,3}, Soo Il Kwon¹, Rena Lee², Hyunsuk Suh², and Kyungja Lee²

¹ Department of Medical Physics, Kyonggi University, Korea, ² Ewha Womans University College of Medicine, ³ Ewha Womans University Mokdong Hospital

leesky2444@freechal.com

The purpose of the present study was to compare a new internal mammary irradiation technique with traditional technique for locally advanced breast cancers. The new technique spared ipsilateral lung and heart and reduced the cold spots and hot spots in medial internal mammary node. The new technique consists of matching and overlapping photon and electron field. Treatment planning was performed to compare this technique to a wide-tangential technique and to a traditional matching photon and electron field. For all three patients, the mean dose of the ipsilateral lung and heart were reduced while receiving enough dose to target area. In conclusion, the new matching and overlapping technique for the treatment of internal mammary shows improvement in critical organ sparing and target dose uniformity.

Keywords : Internal Mammary Nodes, Radiation Technique, DVH