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RADIATION TREATMENT OF BREAST CANCER :

DOSE DETECTION BY TLD.

BY

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ABSTRACT

The comparison among three different techniques of tangential irradiation of chest wall : "Bolus", "No Bolus" and "45° Pair of Wedge" at National Cancer Institute of Thailand were studied. On "No Bolus" technique, the three different separations of tangential fields, 16, 18 and 20 cm. were also studied in order to find out which one should be the proper separation to include both chest wall and internal mammary nodes in the same field at the same time of treatment.

MBO, a new kind of thermoluminescent dosimeter was used to measure the skin dose distribution in both patients and phantom. The results showed the inhomogeneity of skin dose distribution by all of these three techniques. The results revealed that all three techniques did not give the homogenous dose distribution in the treatment volume with the reasonable dose to the lung. The proper separation which gave the adequate treatment dose to both chest wall and internal mammary nodes in the same field was about 18 cm.

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