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Analysis of Medical Usage Factors Pertinent to Radiation Protection for A 4 MeV Rotational Linear Accelerator.

Moyer, R. F., Health Phys., 32, 505-507, (1977).

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Irradiation Timer for Shutter of ^{60}Co Head.

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Effect of air space on depth dose in electron beam therapy.

Faiz M. Khan, Ph. D., Wilfred Sewchand, Sc. D., and Seymour H. Levitt, M. D., Radiology, 126, 249-251, (1978).

Summary

In electron beam therapy, alteration in dosimetry occur as a result of air space between the end-of-treatment cone and the skin surface. A large air gap may be introduced in order to obtain a field

size larger than that available at the cone end. Needed dosimetry corrections related to these air space problems are discussed, along with a proposed method of measuring effective source-to-cone end distance. Data presented show the modification of a dosimetric field which occur with an increase in the air space below the treatment cone.

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A device for insuring the congruency of opposed irregularly blocked fields.

Gary S. Simpkins, Marcia Urie, M. S. and Sidney P. Kadish, M. D., Radiology, 126, 261-263, (1978).

Summary

A device for insuring the congruency of opposed irregularly blocked fields has been developed which permits the treatment of both fields of a parallel opposed pair without the realignment of any field-shaping standard non-divergent blocks. The device is an adaptor which attaches directly to the shadow tray or wedge holder and provides 2 channels for 1 Lucite shadow tray. A mirror-image field is obtained without disturbing the position of the blocking array. Set-up times are decreased.

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Electron beam calibration constants.

Richard G. Lane, Ph. D. and David Lake, B. S., Radiology, 126, 259-260, (1978).

Summary

Electron treatment beam calibration constants are tabulated in a convenient form for mean incident electron energies, E_0 , of 6 to 21 MeV; and practical ranges, R_p , of 2.75 to 10.35 cm of water. Values of mean electron energy at depth E_d , chamber radius correction factors (K_p), and C_e factors may be readily obtained from this chart.

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Time-Dose effects in the matching of adjacent radiotherapy field.

Morris Thatcher, Ph. D. and Mark Yudelev, M. Sc., Radiology, 126, 253-254, (1978).

Summary

When adjacent radiotherapy field are treated at different times, the dose fraction at the junction of the fields is different from that within the portals.