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Measurements of Percentage Depth Dose and Beam profile for 6 MV and 15 MV in water phantom at General Ninh Binh hospital

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Radiotherapy is the branch of clinical medicine concerned with the application of ionizing radiation in the treatment of disease. The process of commissioning a linac for clincl use includes measurements of dosimetric parameters that are necessary to validate the treament planning systems used to select optimal radiation modality and treatment technique for individual patients. In the present study, the measurement of PDD, beam profile was 6 MV , 15 MV in a water phantom at SSD 10 cm (PDD); 90 cm (beam profile); field size 1010×10 [cm]² using detector CC103, the linear accelerator is Synergy Platform. Measurement sbased on TRS 398 protocol, results was compared with IAEA standard. The obtained PDD, symmetric, flatness, penumbra is similar to request of machine, which ensure system work normally.

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