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An innovative technique for the fabrication of shielding device to prevent post radiotherapy complications in head and neck tumour patients

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ABSTRACT:

Radiation therapy is widely used treatment modality for head and neck cancers alone or in combination with chemotherapy or after surgery. In spite of having significant cure rate, it has numerous early and late complications which diminish the patient's quality of life. Therefore, it is advisable to prevent them before they occur. Radiation prostheses can prevent the unnecessary irradiation of the surrounding normal tissues, therefore reducing the severity of complications. Different materials have been introduced to shield the tissues but all these are not cost effective and not easily available materials. We have attempted to use easily available material which can help to overcome these disadvantages.

KEYWORDS: Shielding device, Radiation prosthesis, head and neck cancers

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