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Volumetric modulated arc therapy for stereotactic body radiotherapy:
Planning considerations, delivery accuracy and efficiency

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door

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geboren te Maleisië
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Keywords: total body irradiation, TBI, volumetric modulated arc therapy, dosimetric treatment planning. Total body irradiation (TBI) is used in the management process of hematologic malignancies prior to the transplantation of hematopoietic or bone marrow stem cells. Currently, there are no protocols for contouring and dosimetric planning of whole-body irradiation using volumetric modulated arc therapy (VMAT) in the Republic of Belarus. Our goal was to try to conduct end-to-end preparation for TBI of real patients based on world experience and using the instruments available in our clinic. Based on the literature information [2, 3, 9], the radiation dose is mainly in the range of 12 to 15 Gy. For test plans creation, the authors selected a dose of 12 Gy as the most often mentioned. > About Volumetric Modulated Arc Therapy. This information is intended for general information only and should not be considered as medical advice on the part of Health-Tourism.com. Any decision on medical treatments, after-care or recovery should be done solely upon proper consultation and advice of a qualified physician. What is Volumetric Modulated Arc Therapy? Volumetric modulated arc therapy is new technology introduced in 2007 that delivers treatment with accuracy and speed. It is a novel radiation technique, which can achieve highly dose distributions with accurate target volume henc