



Contribution ID: 177

Type: Poster

Frameless volumetric intracranial stereotactic radiosurgery with non coplanar arcs: clinical experience, accuracy and dosimetric evaluation

Wednesday, 21 June 2017 15:45 (5 minutes)

INTRODUCTION:

In the last decades technological advances are increasing with the development of new treatment techniques and ways to deliver cranial radiosurgery (SRS), that is based into precision and accuracy, Volumetric Arc Therapy (VMAT) have been used in brain radio surgery in terms of non coplanar rotational arc beams with the aid of multi-leaf (MLC) to provide beam collimation. Using the traditional Leksell Stereotactic System, the time to do a treatment in average was around 6 hours; however the workflow using a frameless system decreases the mean treatment time in less than an hour, turning out to be a resources optimization for its realization, all this with the help of all accessories, quality assurance that should be made before deliver a proper treatment. The goal of this study is to show our clinical experience doing frameless SRS, with VMAT technique in the treatment of Arteriovenous Malformations (AVMs), Brain Metastases (BM), Meningiomas, among others. The issues discussed in this study with regard to not only the clinical features, but also beam characteristics, and dosimetric features.

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Session Classification: Wednesday afternoon - Poster Presentations - Screen3