3D Volumetric Conformal Analysis of Vestibular Schwannomas

Comparison of volumetric and linear measurements for estimation of sporadic vestibular schwannomas

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INTRODUCTION

Vestibular Schwannoma Growth

- Tumor volume, percent change in tumor volume

- Tumor is a useful tool in assessing tumor progression compared to radiological imaging. Volumetric analysis provides a more robust tool in assessing tumor progression.

- Maximum Linear Diameter (MLD) measurements and Volumetric analysis were performed with semi-automated 3D conformal volumetric analysis.

- Volumetric measurements were compared to MLD measurements and showed significant differences between MLD and Volumetric analysis.

RESULTS

- Volumetric analysis was significant, but significance between MLD and Volumetric analysis was not significant.

- This study's objective was to compare Volumetric analysis and MLD analysis.

- Volumetric analysis was performed with semi-automated 3D conformal volumetric analysis.

- Statistical analysis: Linear and percent change in tumor volume and growth rates.

- Maximum Linear Diameter (MLD) and Volumetric analysis were significant, but significance between MLD and Volumetric analysis was not significant.

- Volumetric measurements were compared to MLD measurements and showed significant differences between MLD and Volumetric analysis.

- Volumetric analysis was a useful tool in assessing tumor progression compared to radiological imaging.