

Clinical-Medical Image

Advanced MRI Techniques for Diagnosis and Monitoring of Glioblastoma in Adults: A Comprehensive Overview

Arti Ahluwalia*

Department of Nuclear Medicine, Klinikum Rechts der Isar, TU Munich, 81675 Munich, Germany

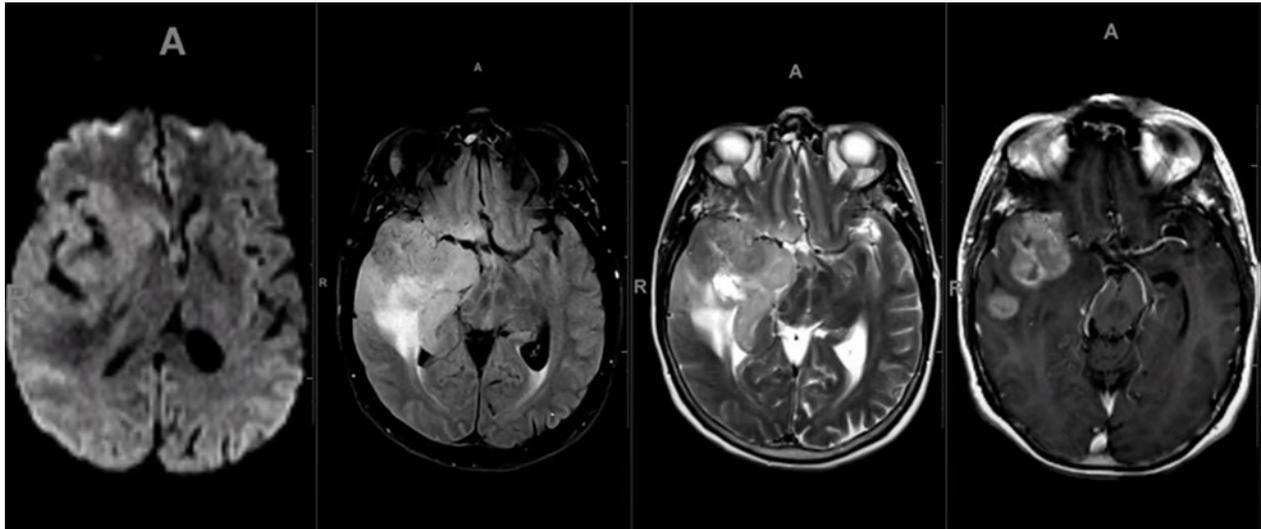


Figure 1: Preoperative MRI images.

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Magnetic resonance imaging (MRI) is the most commonly used imaging modality for diagnosis and monitoring of glioblastoma. Adult MRI of glioblastoma involves a combination of T1-weighted, T2-weighted, fluid-attenuated inversion recovery (FLAIR), diffusion-weighted imaging (DWI) and contrast-enhanced T1-weighted imaging. These imaging modalities provide important information on the location, extent and characteristics of glioblastoma, including the degree of tumor infiltration, vascularity and necrosis. Advanced MRI techniques, such as perfusion-weighted imaging (PWI) and magnetic resonance spectroscopy (MRS), may also be used to further characterize glioblastoma and evaluate treatment response. In this abstract, we will provide an overview of the role of MRI in the evaluation of glioblastoma in adults, highlighting the key imaging features and their clinical implications [1,2].

Keywords: Glioma; MRI; Tumor infiltration

Conflict of Interest

None of the authors has any conflicts of interests to disclose.

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***Corresponding author:** Arti Ahluwalia, Department of Nuclear Medicine, Klinikum Rechts der Isar, TU Munich, 81675 Munich, Germany; E-mail: arti.ahl558@unipi.in

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