

AbstractID: 2237 Title: Dynamic Contrast-Enhanced (DCE) MRI of Tumor Vasculature: Applications in Cancer Therapy

Dynamic contrast-enhanced magnetic resonance imaging (DCE-MRI) has recently emerged as a valuable method for assessment of the tumor blood supply. DCE-MRI has been used to aid in the diagnosis of cancer, treatment planning, and in the assessment of treatment response.

Evidence is mounting that DCE-MRI-based measures correlate well with tumor angiogenesis.

DCE-MRI has already been shown in several types of tumors to correlate well with traditional outcome measures, such as histopathologic studies, and with survival. This talk will provide a brief overview of the approaches used for data acquisition and analyses, with an emphasis on critical factors for reliable DCE-MRI measurements. Several examples of how DCE-MRI has been used in a clinical setting will also be presented.