



Role of Magnetic Resonance Imaging in Obesity and Diabetes

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Message from the Guest Editor

Magnetic Resonance Imaging (MRI) has emerged as a crucial diagnostic and monitoring tool in the management of obesity and diabetes and their associated complications. Its non-invasive nature and ability to provide detailed anatomical and functional information make it invaluable for assessing the progression and severity of diabetic complications.

In diabetic foot complications, MRI effectively differentiates osteomyelitis and Charcot neuro-osteoarthropathy, enabling targeted treatment plans. For brain imaging, MRI can detect the early signs of atrophy in patients with diabetes, potentially indicating neurovascular complications. Additionally, MRI techniques such as arterial spin labeling (ASL), blood oxygenation level-dependent (BOLD), and diffusion-weighted imaging (DWI) show promise in the early diagnosis and monitoring of diabetic kidney disease (DKD), providing insights into renal perfusion, oxygenation, and structural changes.

Overall, MRI's comprehensive capabilities and non-invasive approach make it an essential tool in the clinical management of diabetes, facilitating early intervention and improved patient outcomes.





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