

9th Indo Global Summit on **Cancer Therapy**

November 02-04, 2015 Hyderabad, India

Role of MRI in evaluation of bone tumors and tumor-like lesions

Richa Arora

Nizam's Institute of Medical Sciences, India

The diagnosis of osseous neo-plasms relies predominantly on their systematic analysis on plain radiographs with attention to features like location, margins and zone of transition, matrix, periosteal reaction, cortical destruction, soft tissue component, number of lesions. MRI further helps narrowing the differential or making a specific diagnosis in problematic cases due to its excellent contrast resolution and ability to demonstrate the components like cartilage, fat, vascular tissue, hemorrhage and necrosis. It is also more sensitive to detect radio-graphically subtle marrow lesions. Moreover, it provides additional crucial information required for local staging and surgical planning like degree of intra-medullary extension, involvement of muscle compartments, neurovascular bundles, presence of skip lesions, invasion of adjacent physeal plates and intra-articular extension. Additionally, contrast enhanced MRI helps in differentiating solid from cystic lesions and demonstrating tumoral enhancement characteristics along with depicting most vascularized components. Biopsies done under MRI guidance help in avoiding sampling necrotic tissues. It also helps in follow-up of these cases and assessing treatment response to neo-adjuvant therapy. I will share my experience with MR evaluation of bone tumors.

Biography

Richa Arora completed her MBBS in 2002 and MD Radiology in 2007 from MD University Rohtak. She further completed three year senior residency in All India Institute of Medical Sciences, New Delhi. She has also cleared FRCR (UK) and Master of Medicine (Diagnostic Radiology), Singapore. She is currently working as Assistant Professor in the Department of Radiology in Nizam's Institute of Medical Sciences, Hyderabad, India. She has 25 publications to her credit. Her research interests include Musculoskeletal Radiology, Body Imaging (especially liver imaging) and MRI. She has been serving as Editorial Board Member of reputed journals.

dr.richaarora@gmail.com

Notes: