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Role of diffusion-weighted MRI in evaluation of pediatric musculoskeletal soft tissue masses



Mohamed Ali El-Adalany¹, Nevertiti Kamal El-Din Eid¹, Salma Othman² and Dina El-Metwally^{1*}

Abstract.

Background: In pediatric patients, soft tissue masses encompass a wide heterogeneous group of benign and malignant lesions. MRI is a powerful diagnostic tool in the workup of soft tissue tumors in children, and it helps in characterization of lesion and evaluation of the extent of the lesion. However, conventional MRI techniques are not specific in differentiating benign from malignant lesions. So to improve characterization of tumors, DWI was added to MRI techniques as it increases sensitivity and specificity by detecting the micro-diffusion changes of water into intra- and extracellular spaces. The aim of this work was to highlight the diagnostic value of DWI in detection and characterization of different musculoskeletal soft tissue masses in pediatrics.

Results: There was a statistically significant difference regarding the mean ADC value of benign and malignant. masses (P value = 0.001*). The mean ADC value for all benign masses (n = 41) was 1.495 ± 0.55 SD $\times 10^{-1}$ mm²/s. while the mean ADC value for all malignant masses (n = 21) was 0.449 ± 0.27 SD $\times 10^{-3}$ mm²/s. The cutoff ADC value between benign and malignant masses was 0.88 x 10⁻³ mm²/s. This cutoff ADC value has sensitivity of 100.0%, specificity of 92.3%, PPV of 66.7%, NPV of 100.0% and diagnostic accuracy of 93.3%.

Conclusion: In pediatric patients, DWI is an innovative valuable noninvasive imaging technique for characterization. of musculoskeletal soft tissue masses and discrimination between benign and malignant masses.

Keywords: MRI, DWI, Soft tissue, Masses, Benign, Malignant, Pediatrics.

Background

Soft tissue masses and osseous lesions are commonly encountered in pediatric patients. Musculoskeletal soft tissue masses encompass a wide heterogeneous group of benign and malignant lesions that developed from connective tissue other than bone. Although benign in most cases, a significant proportion of pediatric musculoskeletal soft tissue masses constitutes malignant tumors [1]. Patients who have a soft tissue tumor or tumor-like mass usually presented with non-specific clinical findings such as soft tissue swelling or pain. In many cases, a detailed history and physical examination are sufficient to make a diagnosis, but in circumstances when the diagnosis is uncertain, imaging can be very helpful to characterize the mass [2]

MRI is a powerful diagnostic tool in the workup of soft tissue tumors in children due to its high spatial and contrast resolution [3]. However, there is often an overlap in the MRI appearance of benign and malignant soft tissue tumors, resulting in decreasing the diagnostic confidence. The specificity of conventional MRI in differentiating benign from malignant soft tissue tumors was variable among previous studies, presumably because benign and malignant soft tissue tumors may share the same morphologic features regarding the size, margin, location, signal intensities and contrast enhancement [4, 51.

So to improve characterization of tumors, DWI was added to MRI techniques as it increases sensitivity and specificity by detecting the micro-diffusion changes of water into intra- and extracellular spaces [4]. DWI is a

Full list of author information is available at the end of the article



^{*}Corrispondimoir: elmetwallydinagigmail.com

Fácultir of Medicine, Mansoura University, Mansoura, Egypt

Mri Of Musculoskeletal Masses

A.M.A. de Schepper, A.D. Degryse

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MRI of Musculoskeletal Masses Alan Laorr, Clyde A. Helms, 1997 Magnetic Resonance Imaging of Bone and Soft Tissue Tumors and Their Mimics A.M.A. de Schepper, A.D. Degryse, 2012-12-06 Magnetic resonance imaging has already become a most valuable imaging modality in the diagnostic work up of musculoskeletal neoplasms While high accuracy of MRI for staging purposes has been proven we will focus in this monograph on the characterization of primary bone and soft tissue tumors by MRI The major purpose of this monograph is to provide an atlas of magnetic resonance features of primary bone and soft tissue tumors for radiologists orthopedic surgeons and physiotherapists. The results presented are based on investigations of 94 primary bone and soft tissue tumors and mimicking conditions by magnetic resonance imaging Although the scale of the material allows for statistical handling the number of patients per subgroup is too small to come to definite conclusions We will therefore limit ourselves to the description of and comments on a great number of cases to illustrate the diagnostic potential of this new imaging modality We would like to thank the anonymous cooperators referring clinicians pathologists nurses technicians and secretaries whose help enabled us to present this monograph We would also like to express our gratitude to the firms Siemens AG and Schering AG for technical support MRI of Bone and Soft Tissue Tumors and Tumorlike Lesions Steven P. Meyers, 2008 This unique encyclopedic guide takes the same approach you apply in clinical practice It features fully illustrated differential diagnosis tables organized according to MRI findings and the locations of tumors An in depth reference section provides information on each lesion In addition almost 3000 high quality images make this practical text an invaluable tool in the diagnosis of common and rare tumors and other disorders of the musculoskeletal system Features 20 differential diagnosis tables based on anatomic locations of lesions rather than disease fully illustrated reference chapters containing concise detailed information for each lesion from relative frequency and age rangers to MRI findings treatment and prognosis over 2900 state of the art illustrations covering the wide range of imaging features for various lesions an exceptional level of detail helping you to differentiate between diseases and conditions that have similar appearances and extensive cross referencing to further up to the minute resources BOOK JACKET Imaging of Soft Tissue Tumors Mark Kransdorf, Mark D. Murphey, 2013-09-26 maging technology plays an essential role in the diagnosis of soft tissue tumors as well as in surgical planning Not only can imaging studies such as CT and MRI determine the relationship between a tumor and adjacent vessels and nerves but because some soft tissue tumors possess specific radiologic presentations imaging can help pinpoint the tumor type Based on cases seen at the Armed Forces Institute of Pathology and the Mayo Clinic this comprehensive reference offers detailed visually supported information on the radiologic evaluation of soft tissue tumors and tumor like lesions Inside readers will explore the full spectrum of soft tissue pathologies with over 1400 images that highlight both common and atypical presentations. The book s expert authors offer valuable advice on selecting the most appropriate imaging modality for each tumor type *Magnetic Resonance Imaging of*

Musculoskeletal Tumors Loralie D. Ma,1999 Imaging of Soft Tissue Tumors P.M. Parizel, L. De Beuckeleer, F. Vanhoenacker, Arthur M. De Schepper, 2013-04-17 This richly illustrated revised second edition provides a comprehensive survey of the growing role of medical imaging studies in the detection staging grading tissue characterization and post treatment follow up of soft tissue tumors For each tumor group imaging findings are correlated with clinical epidemiologic and histologic data The relative merits and indications of various imaging modalities are discussed and compared Particular emphasis is placed on MRI The updated edition includes new chapters on soft tissue lymphoma soft tissue tumors in the pediatric patient and biopsy of soft tissue tumors It aims to serve both as a systematic descriptive textbook and as a rich pictorial database of soft tissue masses Imaging of Soft Tissue Tumors Filip M. Vanhoenacker, Arthur M. de Schepper, Paul M. Parizel, Jan L.M.A. Gielen, 2006-04-26 This richly illustrated book provides a comprehensive survey of the growing role of medical imaging studies in the detection staging grading tissue characterization and post treatment follow up of soft tissue tumors For each tumor group imaging findings are correlated with clinical epidemiologic and histologic data The relative merits and indications of various imaging modalities are discussed and compared Particular emphasis is placed on MRI because of its unique contrast resolution and multiplanar imaging capabilities. This third revised and updated edition includes new chapters on genetics and molecular biology and on pathology of soft tissue tumors with respect to the new World Health Organization WHO classification of soft tissue tumors It aims to serve both as a systematic descriptive textbook and as a rich pictorial database of soft tissue masses The addition of numerous new illustrations of common and rare soft tissue tumors will further increase the scientific and educational value of this third edition Practical MRI of the Foot and Ankle Alison R. Spouge, Thomas L Pope, 2000-09-21 EXPAND YOUR KNOWLEDGE OF MRI OF THE FOOT AND ANKLE The introduction of MRI together with rapid technological advancements over the last five years has provided a powerful diagnostic tool Despite this development clinicians are unfamiliar with MRI of the foot and ankle due to the complexities of this imaging modality and the anatomy and Advanced Musculoskeletal MR Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America Roberto Domingues, Flavia Costa, 2018-10-16 This issue of MRI Clinics of North America focuses on Advanced Musculoskeletal MR Imaging and is edited by Drs Roberto Domingues and Fl via Martins Costa Articles will include Quantitative Whole Body MRI Multiparametric Bone Marrow Imaging MET RADS P in Practice Whole Body MRI Beyond Oncology Whole Body Imaging in Multiple Myeloma MRI Neurography in Musculoskeletal Disorders MR Imaging in Rheumatology Multiparametric MRI of Soft Tissue Tumors and Pseudotumors Multiparametric MRI of Benign and Malignant Bone Tumors MR Imaging of Fetal Musculoskeletal Disorders MRI at Rio 2016 Olympic and Paralympic Games Our Experience using State of the art 3 0 T and 1 5 T Wide bore MRI Scanners in High Performance Athletes Ultrasound and Advanced MRI Fusion for Musculoskeletal Tumors Biopsy and more **Enzinger and Weiss's Soft Tissue Tumors** Sharon W. Weiss, John R. Goldblum, Andrew L. Folpe, 2007-11-29 Here's your ideal reference on the diagnosis of tumors of the

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