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Role of multi-detector computed tomography in the assessment of fibro-osseous lesions of craniofacial complex

Dareen Mohamed Khattab
Alexandria University, Egypt

Fibro-osseous lesions of the craniofacial bones comprise a diverse group of pathologic conditions that includes developmental lesions, reactive or dysplastic diseases and neo-plasms. They share many similar histopathological features with other non-fibro-osseous disease processes that develop within the jawbones. Thus a definitive diagnosis of fibro-osseous lesions (FOLs) requires a correlation of the histological features with the clinical, radiographic, and intra-operative findings. This study highlights the importance of the role of multi-detector row CT images, in assessment of fibro-osseous lesions in craniofacial complex in patients with known fibro-osseous lesions, facial disfigurement, and facial swelling. MDCT including reformations better delineate craniofacial complex anatomy than do single detector row CT images. It becomes possible to depict the complete path of complex structures. It is confirmed to be valuable in diagnosis and in guiding the surgical interventions by allowing pre-operative delineation of craniofacial complex anatomy. The proximity of the various components is best appreciated when the area is viewed in axial and coronal sections and different reconstructive methods using sub-millimetric thickness. MDCT is a powerful diagnostic and illustrative tool that will narrow the gap between the radiologists and the surgeons.

Biography

Dareen Mohamed Khattab studied Medicine at Alexandria University, Egypt in 2008. He received Masters Degree in Radio Diagnosis and Interventional Radiology from Alexandria University, Egypt, 2014. He is a member-in-training in RSNA, a Reviewer at the Biological Sciences Journal. He has 4 years of experience in radio-diagnosis and is a Radiology Specialist at Dar Ashaa, Alex, Egypt. He is the author of a book (*Utility of MDCT in fibro-osseous lesions of craniofacial complex*) published by Lambert Academic Publishing, available online since Feb.2015

darin.mohamed33@yahoo.com

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