(Austin Publishing Group

Clinical Image

Heterotopic Ossifications of the Forearm: A Cause of Post-Traumatic Loss of Pronation-Supination

Hajar A*, Khadija L, Jamal EF and Issam E-N Department of Radiology, Mohammed V Military Teaching Hospital, Faculty of Medicine and Pharmacy, Mohammed V University, Rabat, Morocco

***Corresponding author:** ADIL Hajar, Department of Radiology, Mohammed V Military Teaching Hospital, Faculty of Medicine and Pharmacy, Mohammed V University, Rabat, Morocco

Received: May 14, 2021; **Accepted:** June 08, 2021; **Published:** June 15, 2021

Abbreviations

HO: Heterotopic Ossifications; CT: Computed Tomography; R: Radius; U: Ulnar

Keywords

Heterotopic ossifications; Radioulnar; Forearm; Pronation-supination

Clinical Image

HO is defined by the development of ectopic mature bone within nonosseous tissues. It is a well-described phenomenon that complicates forearm fractures, especially when there is an open fracture, a significant soft tissue injury, and associated neural axis or thermal injury. HO mainly forms near metal hardware and may lead to the formation of radio-ulnar synostosis.

CT is superior to plain radiographs, as it identifies the ectopic bone earlier, defines its exact localization, and helps planning the surgical intervention. Radiologic features are variable; in the early stage, CT shows a low-attenuation mass with indistinct surroundings. As the ossification process progresses, zones of mineralization are visible before leading to the formation of mature cortical bone at the periphery (Figure 1 and 2: arrows). Hastings classification describes 5 classes according to how HO affects the forearm range of motion.



Figure 1: Coronal oblique CT scan image showing mature bone structures in the interosseous space and the radio humeral joint.



Figure 2: 3D CT Volume rendering image demonstrating heterotopic ossifications in the interosseous space.