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### **Clinical Image**

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

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## Abbreviations

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

## **Keywords**

Heterotopic ossifications; Radioulnar; Forearm; Pronation-supination

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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.