

## **Lunate Eclipse: An Uncommon Presentation of Lunate Dislocation with 180-Degree Malrotation**

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### **INTRODUCTION:**

Lunate dislocation is a rare and severe carpal injury typically characterized by volar displacement and rotation of the lunate with its articular surface oriented volarly. We report an atypical case of traumatic lunate dislocation with 180-degree rotation such that the articular surface faced dorsally—a highly unusual presentation with few descriptions in existing literature.

### **METHODS:**

Consent was obtained, and a thorough chart review was performed.

**RESULTS:** A 27-year-old male presented after a high-velocity motor vehicle accident. Clinical signs included wrist swelling, volar prominence, and paresthesia in the median nerve distribution. Plain radiographs suggested a volar lunate dislocation; however, computed tomography (CT) revealed a 180-degree rotation of the lunate along its transverse axis, with the articular surface facing dorsally. The patient underwent open reduction and internal fixation via a volar approach. The lunate was successfully derotated and stabilized, with decompression of the median nerve.

**DISCUSSION AND CONCLUSION:** Lunate dislocations with dorsal articular orientation are exceedingly rare and may be misdiagnosed without advanced imaging. This presentation likely results from a unique combination of axial load and rotational torque during trauma. Furthermore, prompt surgical management is essential to optimize outcomes and avoid complications.

