# Distal Radius Fragment Specific (DRFS) Plating System - Case Study

Treated with the Acumed® Divergent Radial Styloid Plate

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# Case Study: Distal Radius Fragment Specific Plating System

**INDICATION:** Displaced Radial Styloid Fracture with Volar Comminution

**PRODUCTS:** Acumed® Divergent Radial Styloid Plate

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## PATIENT HISTORY

This is a 32-year-old, left hand dominant male who was involved in a motor vehicle accident. He sustained a displaced left radial styloid fracture. The volar portion of the styloid fragment was noted to be comminuted on injury radiographs. The patient wished to return to work as quickly as possible. The Acumed® Divergent Radial Styloid Plate was ideal to address the comminuted styloid fracture and allow range of motion and return to activity.

## TREATMENT

Treatment included open reduction and internal fixation of the radial styloid. The Divergent Radial Styloid Plate was used to provide stable fixation of the styloid despite the presence of comminution within the styloid fragment.

## POSTOPERATIVE RESULTS

The procedure was performed on an outpatient basis. At the patient's two-week follow up appointment, he was transitioned to a removable splint and taught a home exercise program to begin wrist range of motion exercises. At six weeks, the patient had no pain over his radial styloid and had full and symmetric range of motion to the contralateral extremity.

## DISCUSSION

The Acumed® Divergent Radial Styloid Plate provides an option for treating radial styloid fractures, especially those that are comminuted. The procedure is performed in a minimally invasive fashion using a dorsal radial approach. Care is taken to protect the sensory branch of the radial nerve during the procedure. The diverging locking screws at the distal end of the plate were designed to achieve stable fixation in the presence of styloid comminution. The stability of this construct allows early range of motion following fixation. The Divergent Radial Styloid plate has been designed to work in concert with other plates from the Acumed® Distal Radius Fragment Specific Plating System. The fixed angle arrangement of these plates has been designed to allow for the use of multiple fragment specific plates without screw interference. In combination with the Acumed® Acu-loc® VDR Plate, the DRFS Plating System allows options for addressing even the most complex distal radius fractures.

**FIGURE 1:** Preoperative X-ray

**FIGURE 2:** Intraoperative Photograph

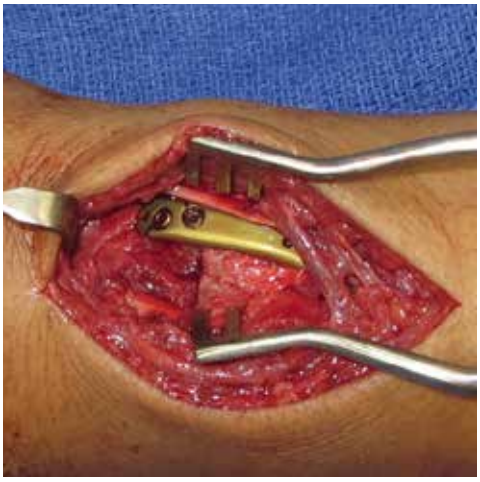

**FIGURE 3:** Postoperative X-ray

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