

Volar Rim Fixation

CLINICAL ISSUES:

- Small fracture fragments that are distal to the watershed line represent a clinical challenge.
- A conventional volar distal radius plate which is placed distally of the watershed line to fixate these avulsed fragments could lead to flexor tendon irritations and/or require hardware removal.

MEDARTIS SOLUTIONS:

- The Medartis APTUS Wrist System contains 3 plates that address these types of fractures:



Rim Plates



Hook Plates



Lunate Facet Plates

These plates are designed to treat small, very distal fracture fragments or bony ligament avulsions, and complex intra-articular fractures with volar rim fragments.

LITERATURE REVIEW:

A study by Biondi, M., *et al.*¹ recently reviewed the clinical performance of these three specific plates for volar rim fractures. In their study, Fragment specific fixation with APTUS wrist system for volar rim fractures of the distal radius: a multicentric study¹, they highlight the following key points:

1. Hook plates were able to secure small volar rim fragments, preserve soft tissue and bone vascularization, as well as be performed minimally invasively.¹
2. Lunate Facet plates adhered "perfectly" to the distal articular surface, while preserving soft tissue.¹
3. Rim plates worked well on larger volar rim fragments, especially those formed from radiocarpal dislocations, as well as radial styloid dorsal fragments and proximal extensions of articular fractures.¹
4. No hardware removals were performed at final follow of 34 months (range 12 to 61 months).¹

KEY TAKEAWAY:

They concluded their study by saying, "APTUS® Wrist presents a versatile set of fragment specific fixation plates able to fix all types of volar rim fracture easily and securely. The system can be used with other devices without any kind of interference between them."¹

Scan the QR Code to read this study and learn more about the specific methods and results from this study or visit <https://doi.org/10.1007/s00068-021-01710-3>.



REFERENCES:

1. Biondi M., et al. (2021, May 26). Fragment specific fixation with APTUS wrist system for volar rim fractures of the distal radius: a multicentric study. *Eur J Trauma Emerg Surg*. doi:10.1007/s00068-021-01710-3.