

# microMIIG<sup>®</sup> HV

Injectable Bone Grafting  
for Distal Radius Fractures

Small Gauge Needle. Precision Delivery.  
Extended Work Time Formulation.



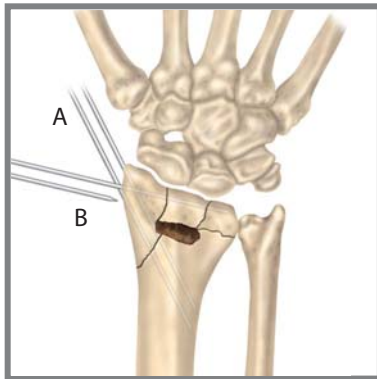
**WRIGHT.**

## Surgical Technique

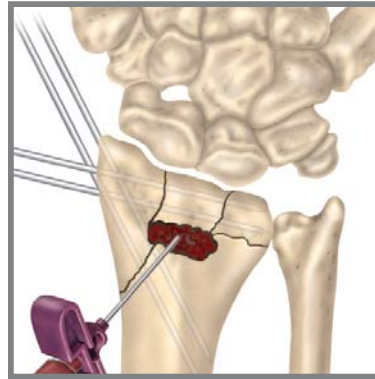
- abbreviated

# Using microMIIG® HV Graft with K-wires Fixation Pins Approach

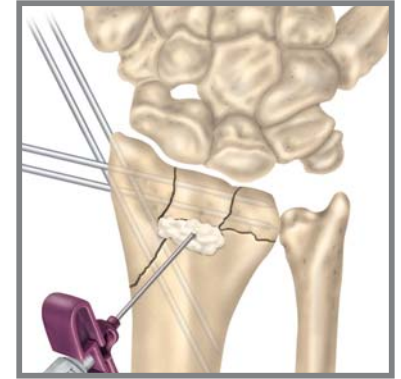
As described by Mark Warburton, MD - High Point Ortho & Sports Medicine



**STEP ONE**  
Stabilize the fracture with a percutaneous K-wire construct that is suitable for the fracture pattern. (A and B)



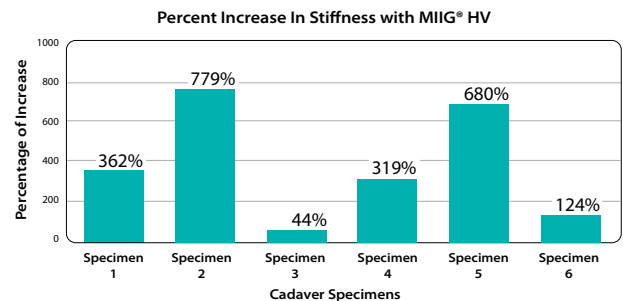
**STEP TWO**  
Once the fracture is reduced and stabilized, the metaphyseal void can be accessed through a small longitudinal incision or percutaneously with the small gauge needle. Once the cannula is properly placed, flush with 2cc's of normal saline to aid in evacuation of the hematoma. Xylocaine can be added to the saline if necessary.



**STEP THREE**  
After 60 seconds of mixing, dock the syringe onto the pre-placed needle and begin injection. A gentle windshield-wiper motion assists in the completion of filling. Injection should be completed within 5 minutes of mixing. Product will set in approximately 22-30 minutes *in situ*.

## A Breakthrough In Less Invasive Bone Grafting

A series of six matched-pair cadaveric radii (twelve total) were evaluated for axial stiffness. In all six cases, after 24 hours of curing, MIIG® HV produced an increase in stiffness compared to the technique using K-wires alone. Using MIIG® HV Graft in conjunction with K-wires in the distal radius increased axial stiffness by a minimum of 44%.\*



*Proper surgical procedures and techniques are the responsibility of the medical professional. The following guidelines are furnished for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on his or her personal medical training and experience. Prior to use of the system, the surgeon should refer to the product package insert for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting Wright Medical Technology, Inc.*

*\*microMIIG® HV is not intended for use as a substitute for hardware fixation, and is not intended to be relied upon for post-operative structural support.*



**Surgical  
Technique**  
- abbreviated

# Using microMIIG® HV Graft with MICRONAIL™ Distal Radius Implant

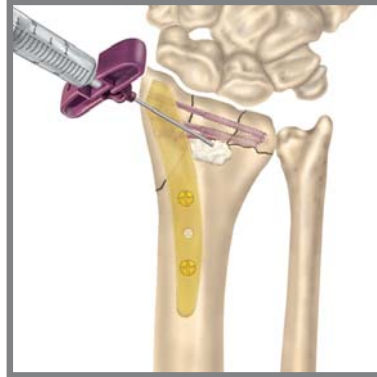
## MICRONAIL™ Intramedullary Radius Implant Approach

As described by Mark Warburton, MD - High Point Ortho & Sports Medicine

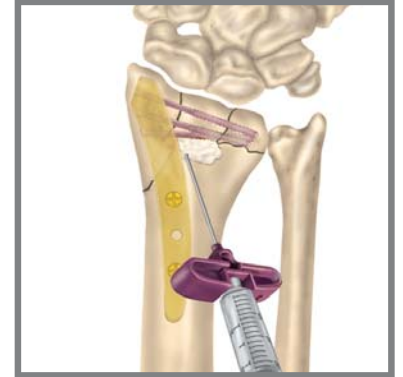
This void can be accessed percutaneously or via the MICRONAIL™ Implant incisions.



**STEP ONE**  
Identify and locate the radius metaphyseal void after MICRONAIL™ Implant insertion.



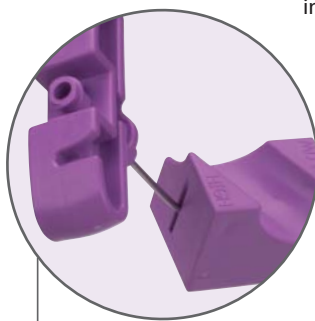
**STEP TWO (Method 1)**  
Contour the needle with the provided needle bender and if room allows, go over the distal aspect of the implant, to fill the void.



**STEP TWO (Method 2)**  
Retract or extend the proximal screw insertion incision to inject directly into the void. Injection should be completed within 5 minutes of mixing. Product will set in approximately 22-30 minutes *in situ*.

## microMIIG® HV Injectable Bone Grafting Kit

Minimally-Invasive Distal Radius Fixation and Grafting have been developed for less-invasive fracture treatment in contained metaphyseal defects with open or closed reduction. The injectable graft hardens inside the body, while demonstrating reliable resorption and replacement by bone.



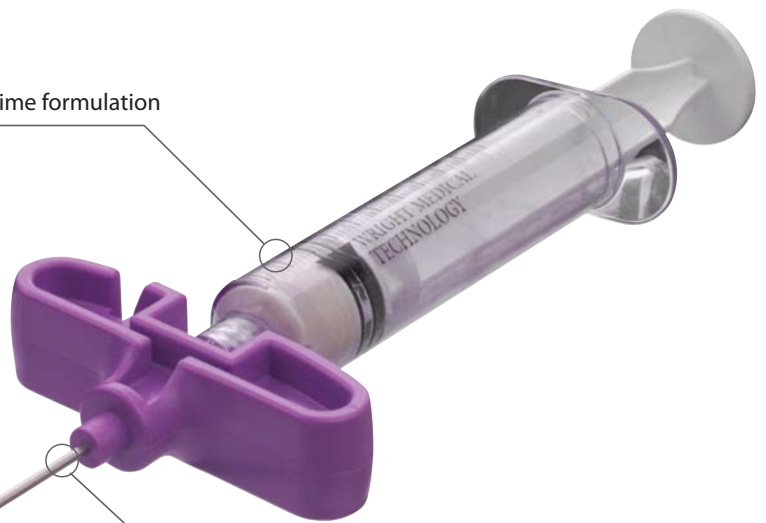
Precision delivery  
(Convenient needle bender included)

Optimized for remote access locations

Deliver graft through fracture lines

Extended work time formulation

Small gauge needle (16 Ga)



# ORDERING information

## Minimally-Invasive Distal Radius Fixation and Grafting



**microMIIG® HV**  
Injectable Bone Graft  
for Distal Radius Fractures  
84XS0404



**MICRONAIL™**  
Intramedullary Radial Fixation System  
5941 Kit 1 / Kit A

**For open reduction, internal  
fixation, try**



**ALLOMATRIX® DR Graft** 3cc  
Semi-Structural Graft  
86DR-0300



**LOCON-T®**  
Low Profile Dorsal Plate  
2490 Kit 1 / Kit A



**LOCON® VLS**  
Volar Locking Plate  
7900 Kit 1 / Kit A



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Covered by one or more of the following patents.  
MIIG® Graft US Patents 5,614,206; 5,807,567; 6,030,636 Patents pending.  
MICRONAIL™ Implant US Patents: 6,527,775 Patents pending.  
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