Ulnar Osteotomy Compression Plate

TriMed Ulnar Osteotomy System™ | Surgical Technique
Plate Application

- Expose bone in the interval between the ECU and FCU.
- Apply plate on bone. Ensure that the two small holes on edge of plate are visible.
- Position plate to avoid distal impingement during shortening.
- Insert one 3.2mm screw in the slotted hole at the end farthest from the osteotomy site, and three 3.2mm screws on the opposite side of plate.

Guide and Pins

- Place the Combination Drill Guide (CD Guide) on the plate.
- Insert a short 1.6mm (.062") K-wire flush along the back wall of the pin slot in the CD Guide and through one cortex.
- Repeat with longer K-wire and remove CD Guide.

Osteotomy

- Select the appropriate ‘A’ guide based on the planned resection (2, 3, 4, 5mm) and insert into the plate. Hold guide with bone clamp (see Tips).
- Make cut with a saw blade of 0.4mm thickness. Irrigate liberally.

Application of Compression Clamp

- Insert the Compression Clamp into the hole on the fixed edge of the plate.
- Adjust the clamp so the K-wire sleeve is just below the central axis of the ulna and away from the osteotomy site.
- Insert a 1.6mm K-wire through the sleeve engaging the far cortex.
Compression of the Osteotomy

- Loosen the screw in the slotted hole 1/4 turn.
- Shorten ulna with Compression Clamp. Use a bone clamp for added compression of osteotomy site.
- Check both sides of osteotomy site for bone coaptation.

Prepare Lag Screw Hole

- Re-apply CD Guide and drill lag screw hole using 2.3mm drill guide.
- Use a bone tap to ensure that lag screw is easy to insert.
- Remove CD Guide.

Insert Lag Screw

- Insert lag screw ensuring penetration of far cortex.
- Re-tighten cortical screw in slotted hole watching that osteotomy remains compressed.

Final Fixation

- Insert the remaining cortical screws.
- Remove K-wires and Compression Clamp.
TIPS

- The bone clamp can be used to stabilize the cutting guides to the plate while osteotomy cuts are made.
- Osteotomies larger than 5mm may be made by performing successive cuts.

Ulnar Osteotomy Compression Plate

- **Bone Clamp**: OBC
- **Compression Drill Guide**: CDGUIDE
- **Hex Cortical Screws**: HEX3.2-xx
  - 8mm to 18mm
- **Locking Cortical Screws**: LCBS3.2-xx
  - 8mm to 18mm
- **Lag Screws**: LAG3.2-xx
  - 12mm to 26mm
- **K-Wires**: WIRE-1.6/065
  - WIRE-1.6/100
- **Saw Guides**: UOSG-A-x
  - 2mm to 5mm
  - UOSG-B
- **Compression Clamp**: OCC
- **Bone Clamp**: OBC
- **Instrument and Implant Tray**

*The technique presented is one suggested surgical technique. The decision to use a specific implant and the surgical technique must be based on sound medical judgment by the surgeon that takes into consideration factors such as the circumstances and configuration of the injury.*