-- acumed[®]

Anatomic Radial Head Solutions
Treatment Options for Simple to Complex Fractures

Product Overview





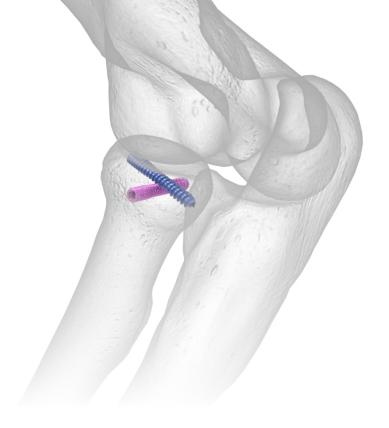
Anatomic Radial Head Solutions

Treatment Options for Simple to Complex Fractures

From plating a fractured radial head to replacing it with an anatomic implant, Acumed offers comprehensive solutions for a variety of elbow fractures. Acumed created the first anatomically shaped radial head on the market and has continued to evolve that system, replacing broaches with reamers, adding long stems, and enhancing the instrumentation.

The Acutrak 2° Headless Compression Screw (Mini and Micro sizes) also adds to the surgeon's toolkit for elbow fixation.





Acutrak 2® Headless Compression Screw

Acutrak 2 screws are designed for the fixation of small bones and fracture fragments, in place of a headed screw or an equivalent-size headless screw.



Mini and Micro Sizes

- Acutrak 2 Mini has a 3.5 mm diameter tip and a 3.6 mm tail
- Acutrak 2 Micro has a 2.5 mm tip and a 2.8 mm tail

Headless Screw

Headless screw design is intended to minimize soft tissue irritation

Patented Thread Pitch

Fully threaded, continuously variable thread pitch allows each thread along the entire length of the screw to aid in the reduction and compression of the fracture

Designed to Ease Insertion

Self-cutting and self-tapping screw is designed to facilitate insertion into hard bone

Acutrak 2® Headless Compression Screw

Acutrak 2 Mini and Micro Instruments may be included in the base of each radial head prosthesis tray to expand the surgical options. Acutrak 2 screws are available for individual order sterile or non-sterile packed



Radial Head Plating System

The system offers a straightforward solution when the radial head is salvageable. Two lengths and two head curvatures provide options for varying patient anatomy and fracture patterns.



Precontoured Plates

Anatomically precontoured plates are designed for the fixation of radial head fractures

Strategic Screw Angles

Converging and diverging locking screw angles are engineered to provide support and help capture fracture fragments



Innovative Instrumentation

A radiolucent targeting guide is included to assist with threading the locking drill guide into the proximal locking holes



Anatomic Radial Head Solutions

Anatomic Radial Head Solutions expanded the comprehensiveness of the Anatomic Radial Head System by adding long stems, bringing the head and stem combinations to 290. The solution also replaced broaches with reamers for canal preparation.



Radius Retractor Instrument

The addition of a radius retractor is intended to facilitate reaming, trialing, and insertion of the anatomic radial head



Anatomic Radial Head Prosthesis

The original anatomically shaped radial head implant is designed to mimic the radiocapitellar joint contact of a native radial head, which may help avoid cartilage erosion^{1, 2}

Long Stems Added

Long stems were added for fractures that extend distally past the radial neck and for revision following failed radial head arthroplasty

Reamers Instead of Broaches*

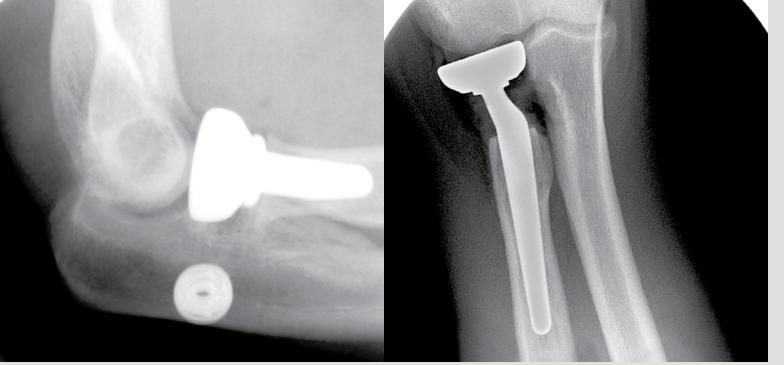
Reamers replaced broaches for canal preparation. Reamers may allow for a larger stem diameter than broaches and may decrease risk of fracture compared to broaches³

The original Anatomic Radial Head System with broaches is still available upon request



A radial head fracture has been fixed with Acutrak 2® Mini headless compression screws, designed to minimize soft tissue irritation

Screws in the Radial Head Plating System are designed to sit flush with the plate for minimized hardware prominence



The curvature in the Anatomic Radial Head prosthesis is designed to mimic the native radial head

Anatomic Radial Head Solutions includes long stems for revisions and fractures that extend distally past the radial neck

Acutrak 2 Mini or Micro



Fracture Type Salvageable Radial Head Fracture

Exposure and Reduction



Guide Wire Insertion



Determine Screw Length



Locking Radial Head Plate



Fracture Type Salvageable Radial Head Fracture

Exposure and Reduction

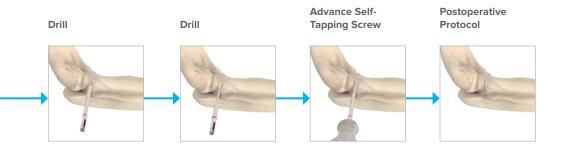


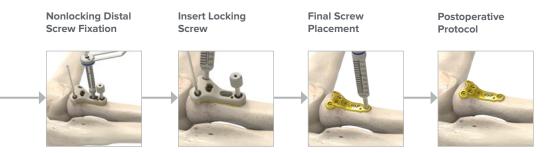
Plate Placement



Provisional Plate Fixation







Standard Stem



Fracture Type
Nonsalvageable
Radial Head Fracture

Radial Head Resection



Determine Stem Diameter



Ream Collar



Determine Head Diameter



Long Stem



Fracture Type Nonsalvageable Radial Head Fracture

Radial Head/Neck Resection



Determine Stem Diameter



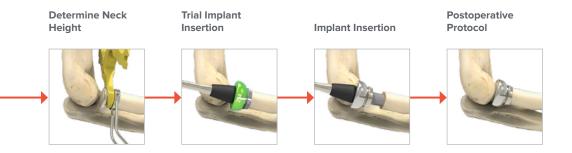
Final Resection

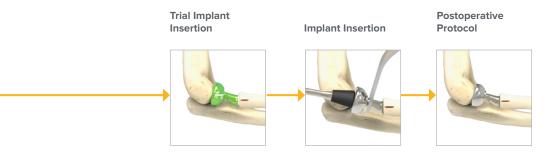


Confirm Stem Diameter

Determine Head Diameter









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ELB00-08-A | Effective: 2017/10 | © 2017 Acumed® LLC

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- Sahu D, Holmes D, Fitzsimmons J, et al. Influence of radial head prosthesis design on radiocapitellar joint contact mechanics. J Shoulder Elbow Surg. 2014;23(4):456–462.
- 2. Bachman DR, Thaveepunsan S, Park S, Fitzsimmons JS, An KN, O'Driscoll SW. The effect of prosthetic radial head geometry on the distribution and magnitude of radiocapitellar joint contact pressures. *J Hand Surg Am.* 2015;40(2):281–288.
- 3. Shukla DR, Shao D, Fitzsimmons J, et al. Canal preparation for prosthetic radial head replacement: rasping versus reaming. *J Shoulder Elbow Surg*. 2013;22(11): 1474–1479.

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