

Case Illustration

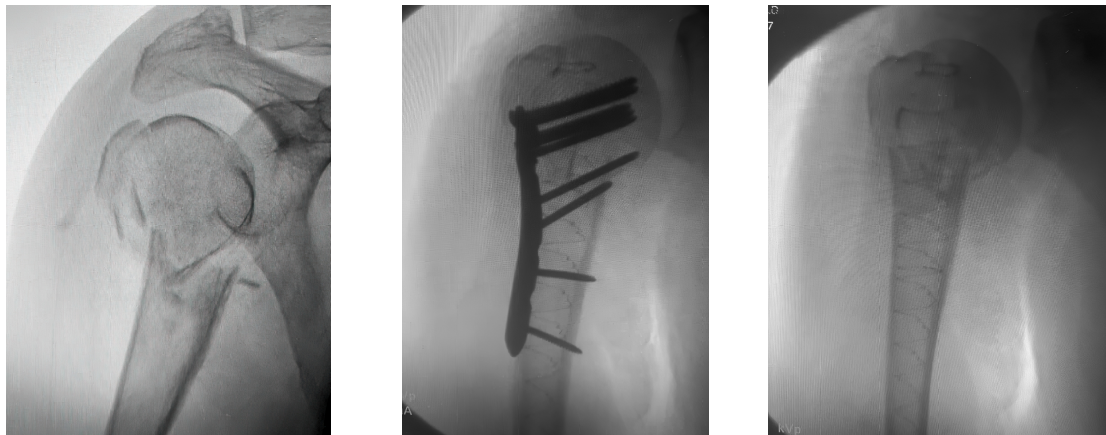
Proximal Humerus with a Plate

Multiple approaches were used to address this fracture in a 60-year-old male, smoker, functional alcoholic patient with osteoporosis. Initially, nonoperative treatment was attempted; however, after two weeks, his displacement and pain levels had risen to the point that operative fixation was performed.

A direct lateral approach was made, and identification of the axillary nerve achieved. The head segment of the humerus was controlled through the use of #2 FiberWires in the supraspinatus and subscapularis. Then a modification of the parachute technique was utilized to create a valgus impacted pattern by crossing the fibers under the axillary nerve and affixing them with two 3.5mm swivel-lock anchors.

Once preliminary fixation was achieved, implant purchase was enhanced by placing a 22/13mm x 160mm tapered IlluminOss implant in the canal, filling it with monomer and curing it with blue light. After curing, the entire construct was spanned with a lateral-based proximal humerus plate with all screws having improved purchase and decreased working length to prevent toggle and loosening.

Dynamic fluoro evaluation noted solid movement. While weight-bearing was restricted, the patient was allowed immediate active and passive motion.



US Indication: The IlluminOss Photodynamic Bone Stabilization System is indicated for use in skeletally mature patients in the treatment of traumatic, fragility, pathological, and impending pathological fractures of the humerus, radius, ulna, clavicle, pelvis, fibula, metacarpals, metatarsals, and phalanges. The IlluminOss Photodynamic Bone Stabilization System can also be used in conjunction with FDA-cleared fracture fixation systems to provide supplemental fixation in these anatomic sites. The IlluminOss System may be used in the femur and tibia to provide supplemental fixation to an anatomically appropriate FDA-cleared fracture fixation system.

EU Indication: The Photodynamic Bone Stabilization System is indicated for use in fracture alignment reduction. It provides stabilization for bone fractures using a minimally invasive technique in which the bone is not subjected to significant weight bearing forces. This IlluminOss procedure pack is intended for use in treatment of the metacarpal, phalange, clavicle, radius, ulna, distal radius, olecranon and fibula. It is also intended for use in treatment of acute fractures of the humerus, and impending and actual pathological fractures of the humerus from metastatic bone disease.

For more detailed procedural information including Warnings, Cautions, Risks & Contraindications, please see the respective IlluminOss Surgical Technique Guide, Package insert or visit www.illuminoSS.com
