ILLUMINOSS® — Transforming Osteoporotic and Pathologic Fracture Repair

Advancing fracture fixation through minimally invasive, conforming intramedullary implants

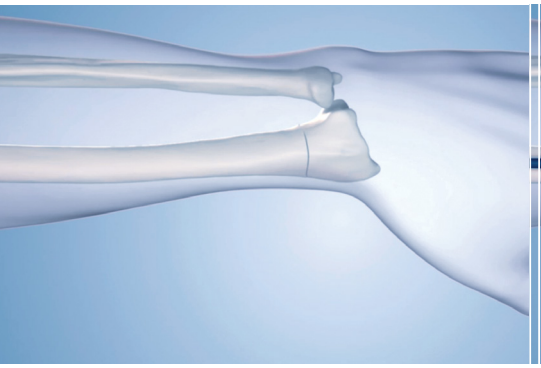
ILLUMINOSS®

A NEW TREATMENT PARADIGM
for fracture repair

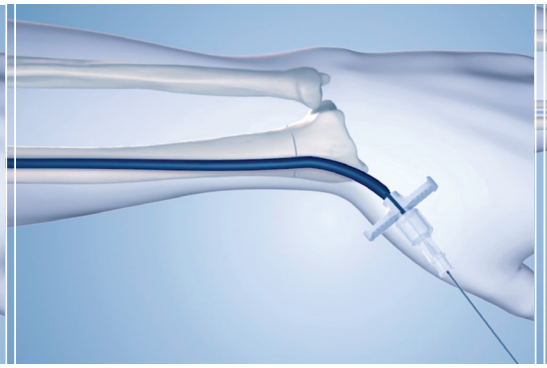
The IlluminOss® Solution delivers a completely new approach to fracture repair which may promote patients' return to mobility and activities of daily living.

IlluminOss addresses key challenges when treating fractures in poor quality bone by:

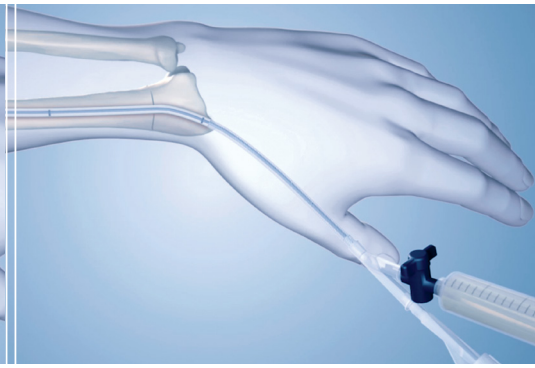
- *Enabling a minimally invasive surgical approach.*[1,2] IlluminOss requires a small incision for access and implant insertion — minimizing potential soft tissue damage.
- *Conforming to the intramedullary canal,*[1,3,4] the implant expands to fit the unique geometry of the patient's canal.
- *Delivering rapid longitudinal and rotational stability* at the fracture site and across the length of the implant.[1,2,3,4]
- *Accommodating the use of ancillary fixation devices along the length of the implant.* IlluminOss augments use of conventional plates, screws and nails for enhanced stability in compromised bone.[1,2,3,4]



Fracture is reduced



Sheath and dilator are inserted into the canal

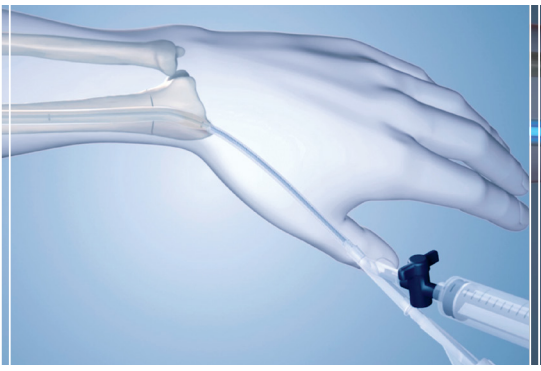


Sheath is removed exposing the balloon catheter within the canal

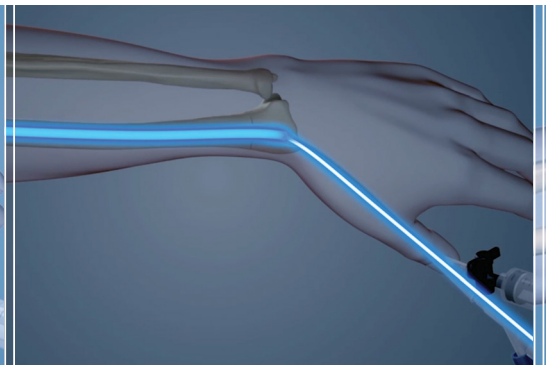
[1] Heck S, Gick S, Rabiner R, Penning D, New Strategy in Geriatric Traumatology — First use of an intramedullary photodynamic polymer in the humerus. VSOU Baden-Baden (South German Orthopedic Congress). April 28-May 1, 2012.

[2] Vegt PA, Muir JM, Block JE. The Photodynamic Bone Stabilization System: a minimally invasive, percutaneous intramedullary polymeric osteosynthesis for simple and complex long bone fractures. Medical Devices: Evidence ad Research. 2014; 7:453-461

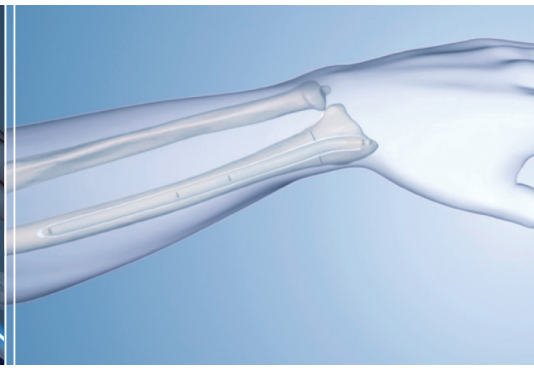
[3] Heck S, Gick S, Penning D, Intramedullary polymer implant with angular stability for minimally invasive repair of pathologic fractures. Meeting of the Associations of Surgeons — Cologne, Germany.



Balloon is infused with liquid monomer causing it to expand and conform to the canal



The monomer is cured on demand by visible light



Implant provides longitudinal and rotational stability along the length of the implant

[4] Heck S, Gick S, Penning D, Minimally invasive stabilization of upper limb pathological fractures with an intramedullary polymer. AAOS (American Academy of Orthopedic Surgeons). New Orleans, March 11-15, 2014

Indications
The IlluminOss System is CE Mark approved for light to low, load-bearing bones. It is indicated for use in fracture alignment reduction. It provides stabilization for bone fractures using a ercutaneous technique in which the bone is not subjected to significant weight bearing forces.
This product has the CE mark and is available for sale in the EU.
This product is investigational and not for sale in the United States.

Mobility and independence regained

"Treatment with IlluminOss contributed to a faster return to baseline mobility for this 88-year-old patient with a fibula fracture. She was able to resume walking one day post surgically."

~ Thomas Gausepohl, MD, PhD,
Klinikum Wetzlar, Germany

Scan the QR code to see a fibula fracture procedure and post-procedure result.

IlluminOss

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