Precice

A revolutionary treatment option for limb length discrepancy

The Precice intramedullary (IM) limb lengthening system is a novel adjustable state-of-the-art device that utilizes a remote control to non-invasively lengthen the femur or tibia. Precice is used to treat long bone abnormalities often the result of acute fractures and chronic nonunions.

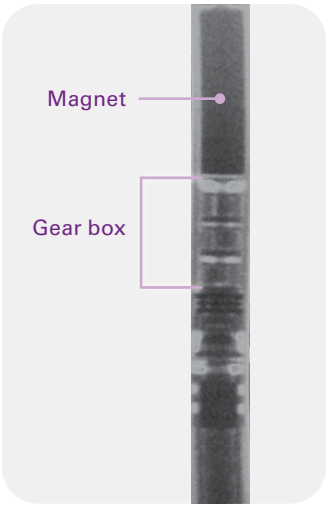
Benefits

- Customizable lengthening protocol
- Non-invasive distraction via External Remote Controller (ERC)
- Patient-preferred treatment option[1]
- Novel magnetic technology
- Up to 80 mm of distraction
- Nail may be reversed

NuVasive
Specialized Orthopedics

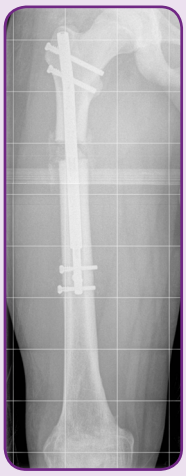
State of the art technology

The key to the NuVasive platform technology is the magnetic interaction between the Precice (IM) nail and remote control. The proprietary technology includes a complex internal gear system remotely activated and controlled by permanent magnets. This advancement in limb lengthening allows for a precision controlled distraction phase with the ability to non-invasively customize treatment.

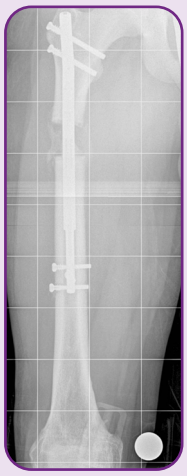


ERC

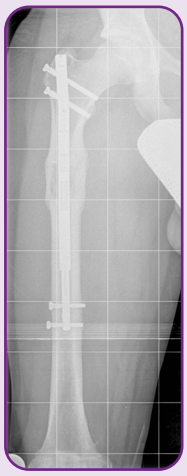
The ERC is a portable, hand held unit that precisely lengthens or shortens the Precice IM nail through the touch of a button. The ERC is fully customizable to each patient based on their distraction needs. The ERC is designed to be used in a clinic setting or the comfort of the patient's home.



2-week post-op



5-week post-op



10-week post-op

ERC

Rx Only.

The Precice intramedullary limb lengthening system is composed of an implantable intramedullary nail, locking screws, reusable instruments, and a hand-held external remote controller (ERC). The Precice nail is a sterile single use device that is surgically implanted using the instruments and locking screws. The ERC is used daily after implantation to non-invasively lengthen or shorten the implant to a prescribed length. US Indications: The Precice system is intended for limb lengthening, open and closed fracture fixation, pseudoarthrosis, mal-unions, non-unions, or bone transport of long bones in patients 18 years and older. OUS Indications: The Precice system is intended for limb lengthening, open and closed fracture fixation, pseudoarthrosis, mal-unions, non-unions, or bone transport of long bones in adults. Contraindications include infection or pathologic conditions of bone such as osteopenia which would impair the ability to securely fix the device, metal allergies and sensitivities, patients with Gustilo open fracture Classification Grade IIIB or IIIC fractures, patients with pre-existing nerve palsies, patients with an irregular bone diameter that would prevent insertion of the Precice nail, patients in which the Precice nail would cross joint spaces or open epiphyseal growth plates, patients in which there is an obliterated medullary canal or other conditions that tend to retard healing such as blood supply limitations, peripheral vascular disease or evidence of inadequate vascularity, patients unwilling or incapable of following postoperative care instructions. For contraindications with regard to weight limitations and maximum distance of the treated limb to the surface of the intramedullary canal for use with the ERCs, visit **nuvasive.com/eIFU** to consult the instructions for use. The implantable device is only to be used by a trained licensed physician. Please refer to the Precice system instructions for use for complete important safety information. CAUTION: Federal law restricts this device to sale by or on the order of a physician.

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References

1. Herzenberg JH, Standard SC and Specht SC. Limb lengthening in children with a new, controllable internal device. Paper presented at the European Paediatric Orthopaedic Society (EPOS); April 17-20, 2013; Athens, Greece.

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