Designed to advance the treatment of hip fractures.
TFNA is a new system designed to solve a wide range of unmet needs for surgeons, OR staff and administrators.

More than five years in the making, this system offers advancement in hip fracture treatment, including outcomes-based design, reduced procedural complexity, and comprehensive surgical options.

It incorporates the best elements of our highly successful global hip nails (TFN, PFNA, and PFNA II), optimized through input from hundreds of surgeons around the world. TFN-ADVANCED™ Proximal Femoral Nailing System truly is a global platform that delivers modern innovation.
OUTCOMES-BASED DESIGN

Designed to improve patient outcomes by resolving some of the most pressing clinical challenges.

REDUCED PROCEDURAL COMPLEXITY

Designed to improve efficiency and ease of use for surgeons and OR staff.

COMPREHENSIVE SURGICAL OPTIONS

Provides an extensive range of proximal femoral nailing options, including augmentable blade/screw head element, locking options, and nail lengths & diameters.
OUTCOMES-BASED DESIGN

Designed to improve patient outcomes by resolving some of the most pressing clinical challenges.

Improved anatomical fit

- Improved nail shape (1.0m anatomic bow) based on multi-ethnic 3-D computational study designed to better fit patient anatomy and to help avoid impinging anterior cortex compared to nails with larger radius of curvature.

- Improved anatomical fit

- Small proximal diameter (15.66mm) and LATERAL RELIEF CUT™ Design help to preserve bone in insertion area due to reduced critical width.

- 15.66 mm

- 14.12 mm

- LATERAL RELIEF CUT DESIGN

- Design of the nail avoids impingement on lateral cortex.

- 14.12mm critical width for 11mm diameter nail.
Minimizes head element cut-out

- TFNA Helical Blade technology is designed to compress bone during insertion, which enhances implant anchorage and may reduce the risk of cut-out.

Avoids lateral protrusion

- Oblique lateral end of both blade and screw lies flush to lateral cortex to reduce protrusion on soft tissue.

Helps prevent nail breakage

- Titanium alloy and BUMP CUT™ Design of proximal hole provides improved fatigue strength compared to existing nails of similar size.
REDUCED PROCEDURAL COMPLEXITY
Designed to improve efficiency and ease of use for surgeons and OR staff.

- Radiolucent insertion handle with radiographic indicators improves x-ray visualization and assists with guide wire placement.
■ Quick Click™ Self-Retaining Technology designed for easier attachment of nail to insertion handle.

■ Self-centering instruments to facilitate implant removal.

■ Locking mechanism pre-assembled.
COMPREHENSIVE
SURGICAL OPTIONS

Designed to provide an extensive range of proximal femoral nailing options, including augmentable blade/screw head element, locking options, and nail lengths & diameters.

Proximal locking options

- In addition to rotational locking for the helical blade and screw, the system offers a static locking option that can be selected intraoperatively.
■ Optional percutaneous set with larger instruments including protection sleeve and insertion handle.

■ Choice of both augmentable TFNA Helical Blade or TFNA Screw to suit a wide variety of clinical needs, which supports surgical preferences and helps facilitate hospital standardization.

■ Long nail provides three distal locking options, including a distal hole that is offset an additional 10° to better target bone in condyles.

■ Wide selection of nail lengths and diameters covers broad array of patient anatomy.
A COMPLETE PRODUCT PORTFOLIO TO SUIT YOUR NEEDS.

The TFN-ADVANCED™ Proximal Femoral Nailing System comprises a variety of implants and instruments to accommodate a wide range of hip fracture treatment procedures.
TFNA Nails

MATERIAL
- Ti-15Mo (TiMo)
- Color: green

LOCKING MECHANISM
- Ti-6Al-7Nb (TAN)
- 40Co-20Cr-16Fe-15Ni-7Mo
- Color: green

LENGTHS
- TFNA short:
  - 170mm
  - 200mm
  - 235mm left/235mm right
- TFNA long:
  - 260mm–480mm (left and right nails, 20mm increments)

DISTAL DIAMETERS
- Short nails: Ø9, Ø10, Ø11, Ø12
- Long nails: Ø9, Ø10, Ø11, Ø12, Ø14

CCD ANGLE
- 125°/130°/135°

NAIL FEATURES
- Proximal diameter 15.66mm
- 5° ML angle
- Pre-assembled locking mechanism
- Anterior Posterior bend, 1.0m radius of curvature
- LATERAL RELIEF CUT DESIGN

TFNA Helical Blades and TFNA Screws

MATERIAL
- Ti-6Al-7Nb (TAN)
- Color: gold

DIAMETER
- 10.35mm diameter

LENGTHS
- 70mm–130mm (5mm increments)
- Cannulated
To learn more about the future of hip fracture treatment, contact your DePuy Synthes Sales Consultant or visit: www.tfna.com

The TFN-ADVANCED™ Proximal Femoral Nailing System is designed to advance hip fracture treatment with:

- Outcomes-based Design
- Reduced Procedural Complexity
- Comprehensive Surgical Options

INDICATIONS
TFNA short (Lengths 170mm, 200mm, 235mm)
- Pertrochanteric fractures (31-A1 and 31-A2)
- Intertrochanteric fractures (31-A3)
- 235mm nails are additionally indicated for high subtrochanteric fractures

TFNA long (Lengths 260mm–480mm)
- Pertrochanteric fractures (31-A1 and 31-A2)
- Intertrochanteric fractures (31-A3)
- Fractures of the trochanteric area (31-A1/A2/A3) with diaphyseal extension
- Combined fractures of the trochanteric area (31-A1/A2/A3) and the femoral shaft (32-A/B/C) – Pathological fractures, including prophylactic use
- Malunions
- Nonunions

TFNA AUGMENTATION
For fractures in the proximal femur with poor bone quality and/or increased risk of fixation failure at the implant/bone interface

For contraindications, please consult the TFN-ADVANCED Technique Guide (DSEM/TRM/0514/0052).

This publication is not intended for distribution in the US.

All surgical techniques are available as PDF files at http://www.depuysynthes.com/ifu