



INVICTUS[®]
SPINAL FIXATION SYSTEM

**UNRIVALED
COMPREHENSIVE
FIXATION**

DEPENDABLE • ADAPTABLE • PREDICTABLE

αtec[™]
INFORMED BY **EOS**

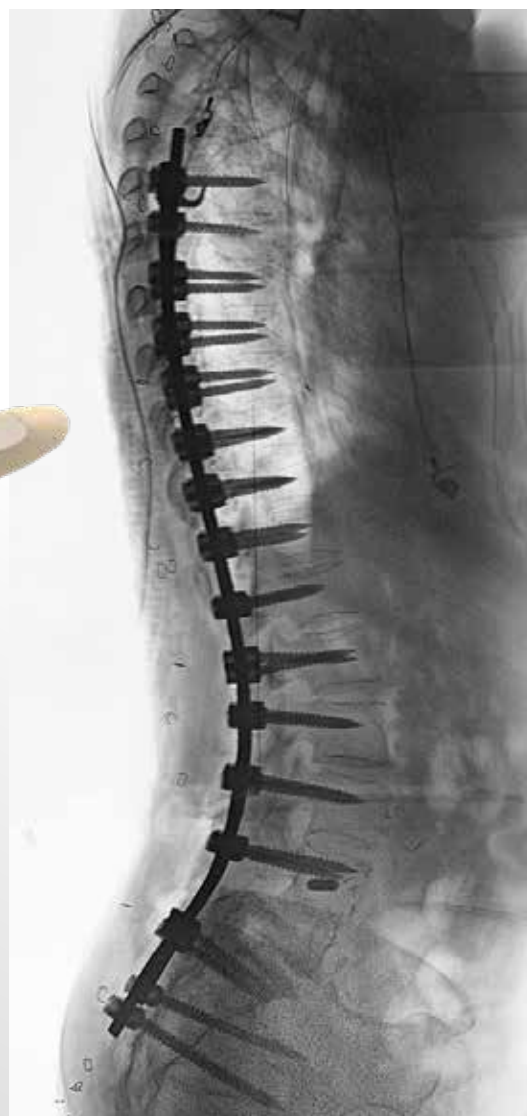
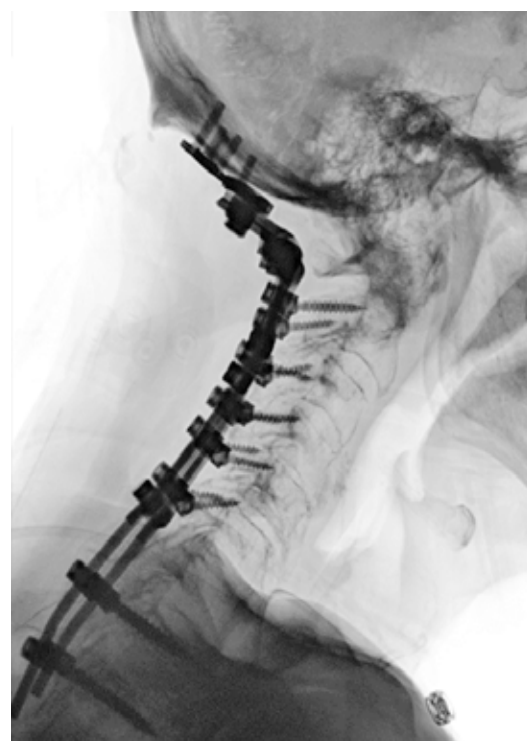
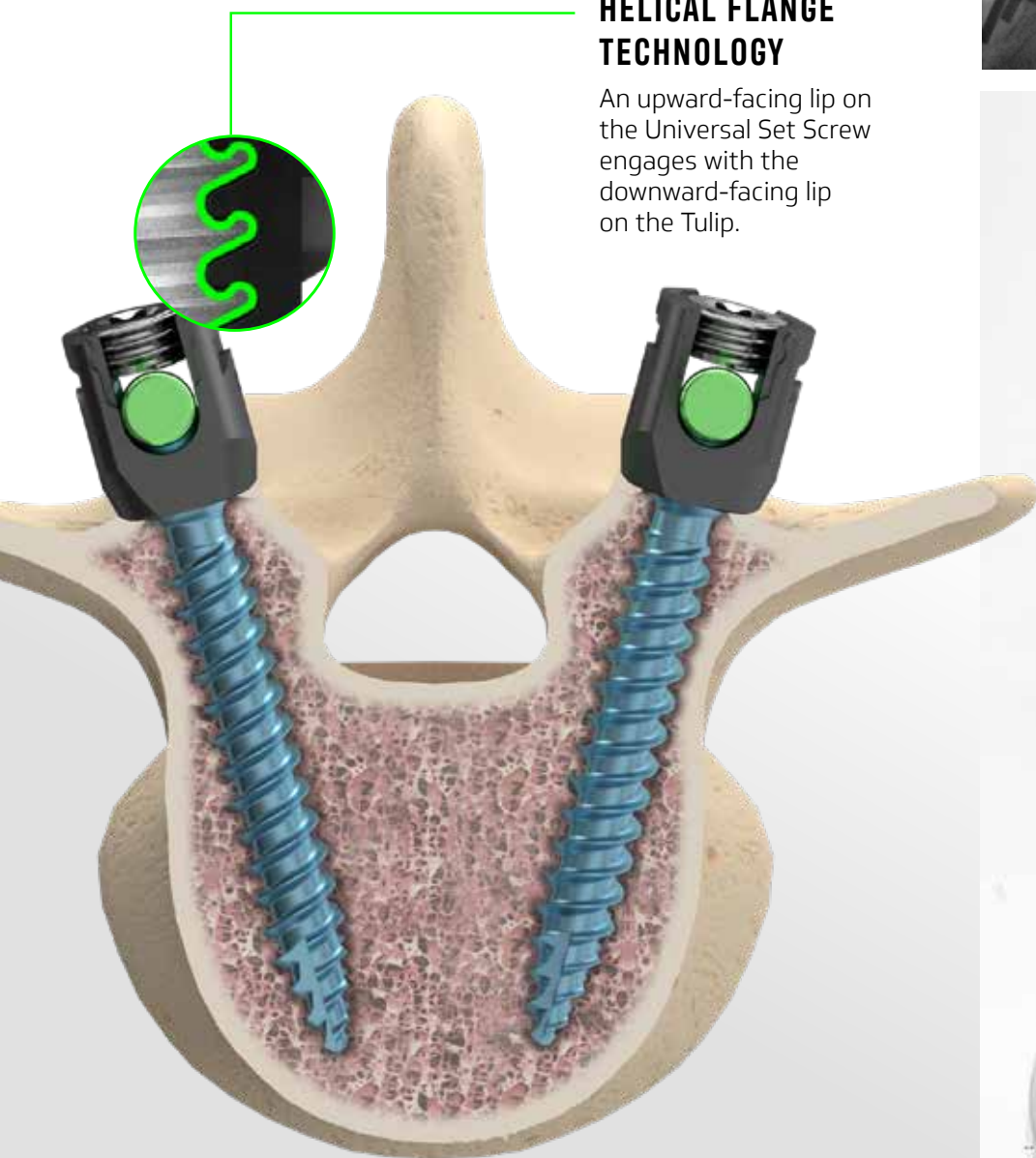
INVICTUS[®]

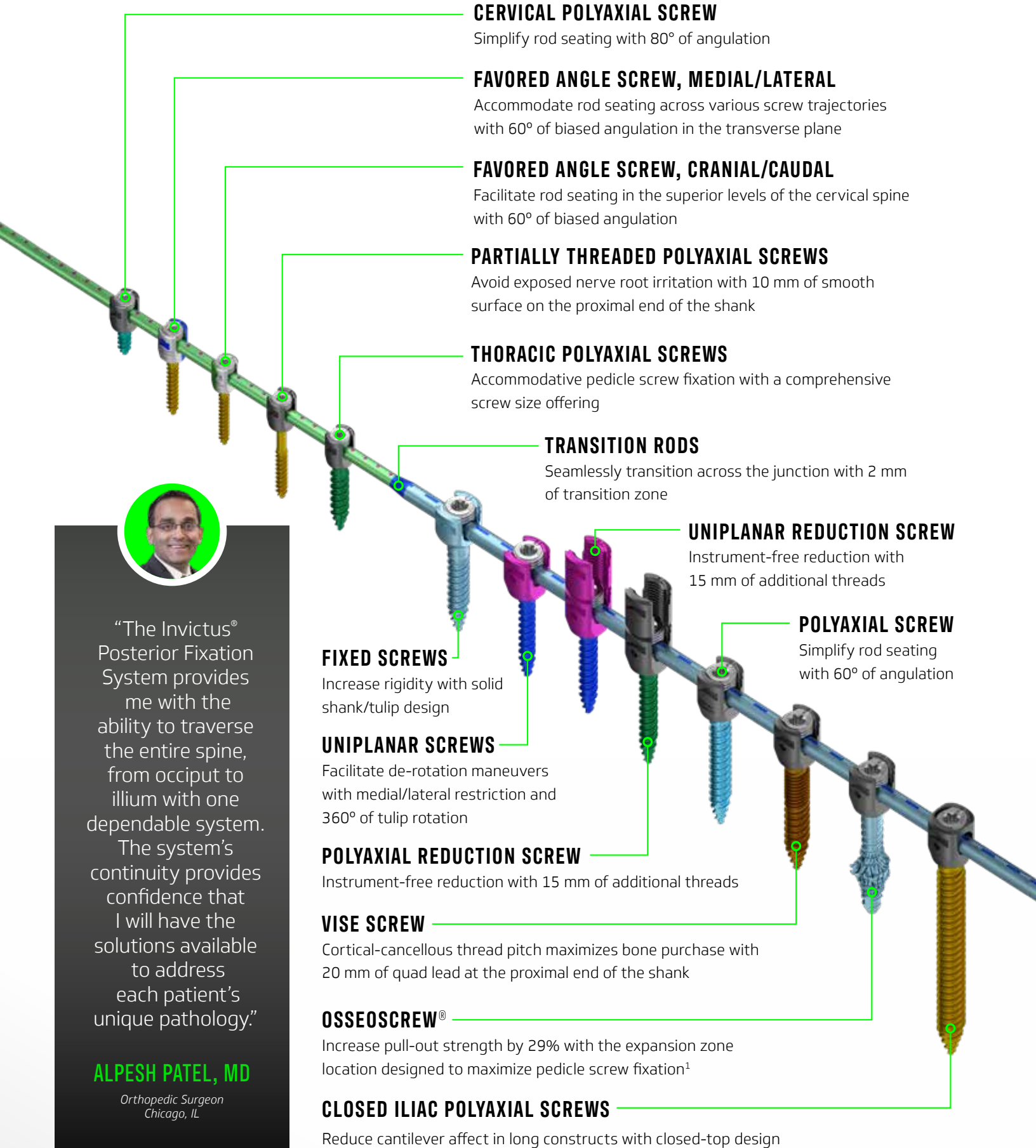
SPINAL FIXATION SYSTEM

Invictus is ATEC's comprehensive occiput to ilium spinal fixation platform, designed to treat a range of pathologies with intraoperative adaptability and surgical predictability through an open, MIS, or hybrid approach. The Invictus platform provides surgeons with a wide range of implants designed with dependable Helical Flange[®] technology while offering robust instrumentation. Seamlessly integrated with EOS[®] imaging and SafeOp[™] combined EMG technology, Invictus delivers a predictable fixation solution.

HELICAL FLANGE TECHNOLOGY

An upward-facing lip on the Universal Set Screw engages with the downward-facing lip on the Tulip.



**CERVICAL POLYAXIAL SCREW**

Simplify rod seating with 80° of angulation

FAVORED ANGLE SCREW, MEDIAL/LATERAL

Accommodate rod seating across various screw trajectories with 60° of biased angulation in the transverse plane

FAVORED ANGLE SCREW, CRANIAL/CAUDAL

Facilitate rod seating in the superior levels of the cervical spine with 60° of biased angulation

PARTIALLY THREADED POLYAXIAL SCREWS

Avoid exposed nerve root irritation with 10 mm of smooth surface on the proximal end of the shank

THORACIC POLYAXIAL SCREWS

Accommodative pedicle screw fixation with a comprehensive screw size offering

TRANSITION RODS

Seamlessly transition across the junction with 2 mm of transition zone

UNIPLANAR REDUCTION SCREW

Instrument-free reduction with 15 mm of additional threads

POLYAXIAL SCREW

Simplify rod seating with 60° of angulation

FIXED SCREWS

Increase rigidity with solid shank/tulip design

UNIPLANAR SCREWS

Facilitate de-rotation maneuvers with medial/lateral restriction and 360° of tulip rotation

POLYAXIAL REDUCTION SCREW

Instrument-free reduction with 15 mm of additional threads

WISE SCREW

Cortical-cancellous thread pitch maximizes bone purchase with 20 mm of quad lead at the proximal end of the shank

OSSEOSCREW®

Increase pull-out strength by 29% with the expansion zone location designed to maximize pedicle screw fixation¹

CLOSED ILIAC POLYAXIAL SCREWS

Reduce cantilever affect in long constructs with closed-top design



“The Invictus® Posterior Fixation System provides me with the ability to traverse the entire spine, from occiput to ilium with one dependable system. The system’s continuity provides confidence that I will have the solutions available to address each patient’s unique pathology.”

ALPESH PATEL, MD

Orthopedic Surgeon
Chicago, IL

UNRIVALED COMPREHENSIVE FIXATION

INVICTUS[®] SPINAL FIXATION SYSTEM

69 YEAR-OLD MALE

- Presented with back pain and weakness increased with standing
- Surgical plan: T2-ilium posterior fixation with quad-rod construct

PRE-OP



POST-OP



“Invictus OCT extends the Invictus System, creating a single platform addressing the spine from occiput-ilium with familiar design, color coding, and nomenclature that surgeons have become accustomed to.”



TIMOTHY KUKLO, MD
Orthopedic Spine Surgeon
Denver, CO

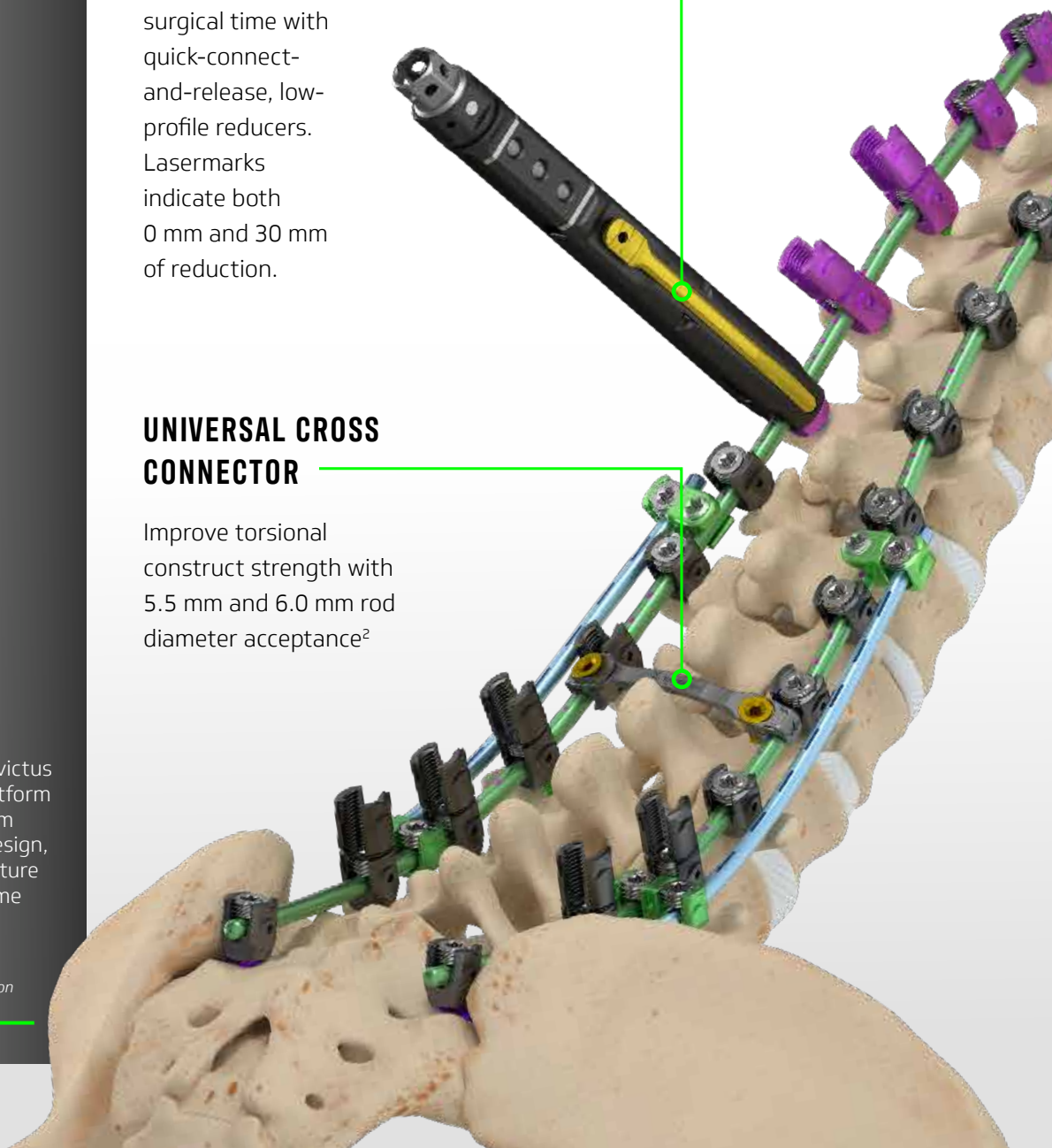
Spanning occiput to ilium, the Invictus Spinal Fixation System touts a wide variety of implants and instruments designed to adapt to even the most challenging surgical scenarios. Screw diameters range 3.5 mm-12.5 mm and 10 mm-130 mm in length. Rod materials Ti and CoCr are offered from Ø3.5 mm-6.0 mm, with 22 distinct rod-to-rod connector options.

AR30

Aims to reduce surgical time with quick-connect-and-release, low-profile reducers. Lasermarks indicate both 0 mm and 30 mm of reduction.

UNIVERSAL CROSS CONNECTOR

Improve torsional construct strength with 5.5 mm and 6.0 mm rod diameter acceptance²



INVICTUS[®] OCT

SPINAL FIXATION SYSTEM

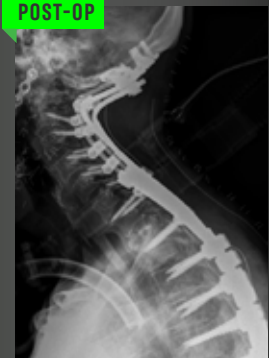
59 YEAR OLD MALE

- Presented with post-radiation fracture of C2 with chronic displacement, T1 compression fracture and progressive cervical myelopathy
- Surgical plan: Occiput to T7 and T1 PSO

PRE-OP



POST-OP



"Invictus OCT has further enhanced my practice and outcomes by providing a robust posterior cervical system. The combination of the Hinged Rods and Occipital Plate make traversing the occipital-cervical junction seamless".



DANIEL CAVANAUGH, MD
Orthopedic Surgeon
Baltimore, MD

OCCIPITAL PLATE

Features the unique ability to accept single- or dual-rod tulips to allow for a two-, three-, or four-rod construct. This combined with various size options provides the most comprehensive solution to crossing the occipital-cervical junction with increased biomechanical stability.

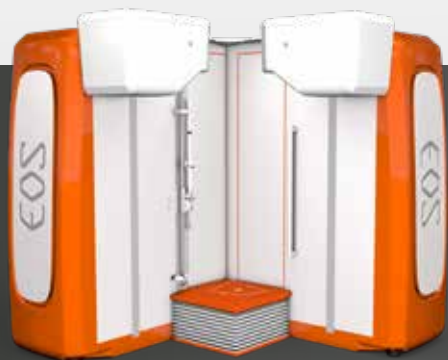
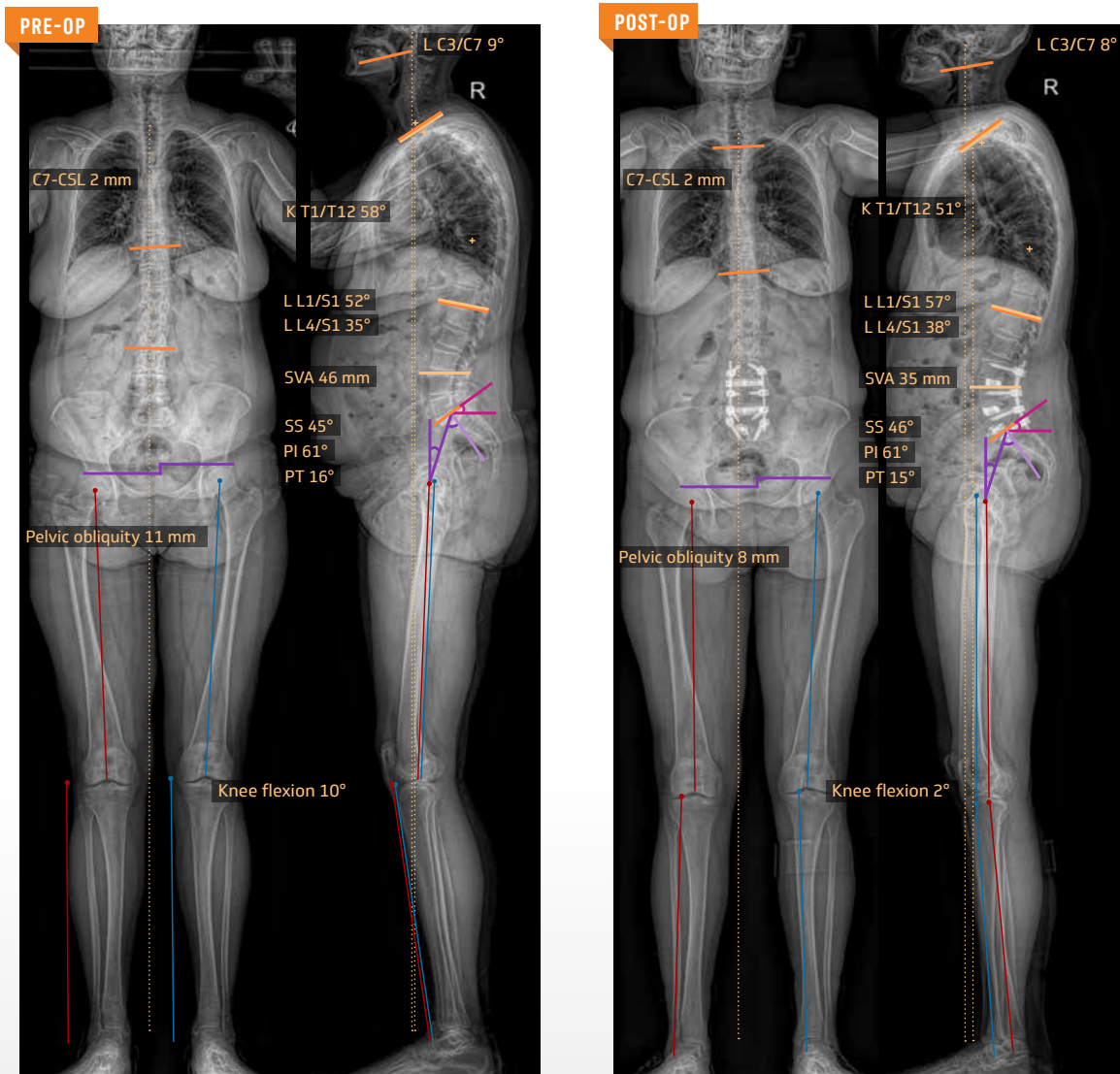
HINGED RODS

Offering greater adaptability to accommodate varying anatomies. The ability to adjust and set in situ provides the ultimate intra-operative flexibility, all while accepting both 3.5 mm and 4.0 mm rods.



Global Assessment

EOS® measurements provide improved, more reproducible alignment parameters.³ Leverage full-body EOS images and reports to establish preoperative objectives and evaluate outcomes along the continuum of care.



Standardized Imaging

EOSedge® captures full-body images of the patient in a functional standing position – enabling a global assessment of all alignment factors. The standardized acquisition protocol leverages best-in-class radiographic technology to deliver 1:1 calibrated, high resolution images with homogenous image quality.

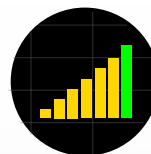
³Okamoto M, Jabour F, Sakai K, Hatsushikano S, Le Huec JC, Hasegawa K. Sagittal balance measures are more reproducible when measured in 3D vs in 2D using full-body EOS® images. *Eur Radiol.* 2018 Nov;28(11):4570-4577

Intraoperative Predictability

ATEC's SafeOp Neural Informatix System provides surgeons real-time, objective, and actionable information during posterior fixation procedures enabling them to detect nerve proximity and monitor the health of nerves at risk.

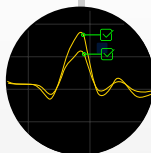


FAST, RELIABLE, DISCRETE NEURAL INFORMATION



Fast

Provides readings 4x faster than competitive systems⁴



Reliable

Validated responses to eliminate inaccurate readings



Discrete

EMG values delivered audibly and visually

Dynamic tEMG technology

provides real-time feedback during pedicle preparation and screw placement to reduce the risk of pedicle breach.

Validated Response Thresholding

(VRT) algorithm is designed to deliver industry-leading nerve detection while reducing the incidence of false-positive responses.

SafeOp peripheral devices

and the Invictus posterior fixation instruments are designed to seamlessly integrate critical neural information into ATEC's posterior approaches.

⁴Gupta M, Taylor SE, O'Brien RA, et al. Intraoperative Neurophysiology Monitoring. In: Phillips FM, Lieberman IH, Polly DW, Wang MY, eds. Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management. 2nd ed., Switzerland: Springer Nature; 2020:74.



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