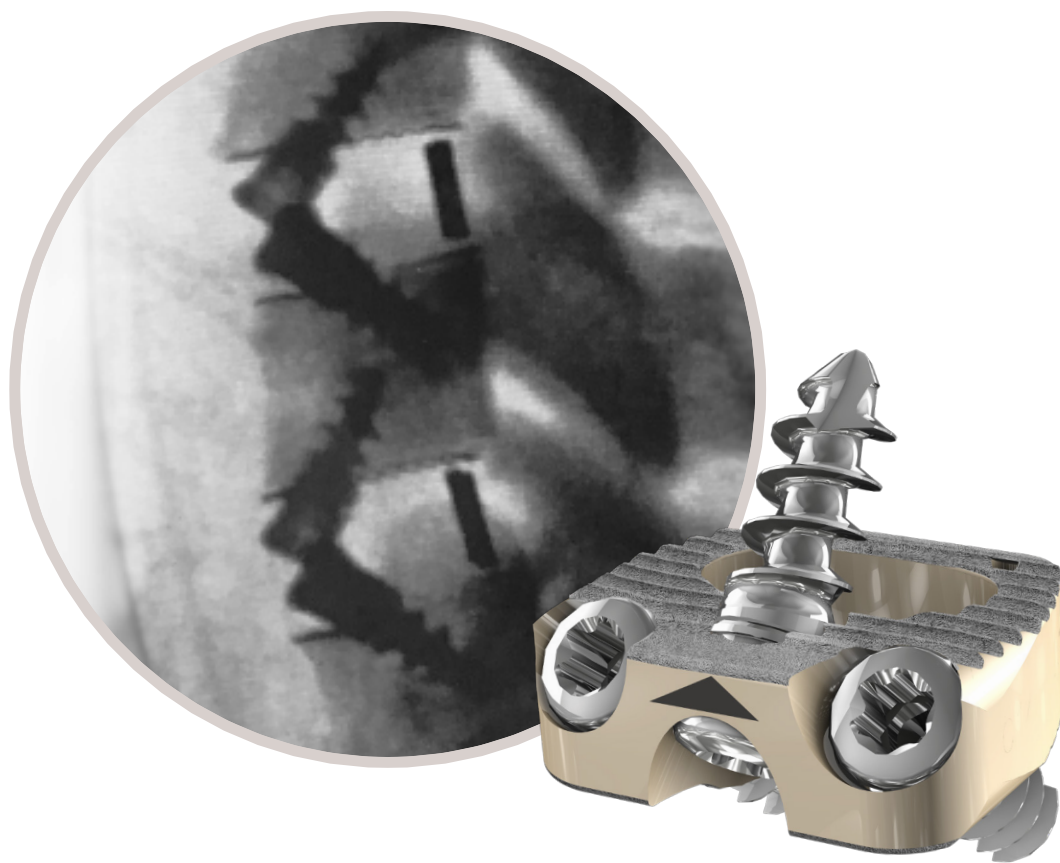


STALIF C ®

NO PROFILE® ANTERIOR CERVICAL **INTEGRATED INTERBODY™** SYSTEM



UNPARALLELED CLINICAL
& BIOMECHANICAL DATA

Ti-ACTIVE™: MICROPOROUS
TITANIUM SURFACE

PROVEN STALIF®
DESIGN RATIONALE

First cervical stand-alone with multilevel* indication

*Multilevel indicates for 1-2 contiguous levels.

UNPARALLELED CLINICAL & BIOMECHANICAL DATA

Fusion rates comparable, and in some cases superior, to the reported rates when using traditional rigid anterior plating^{1,2,3}

92-95%

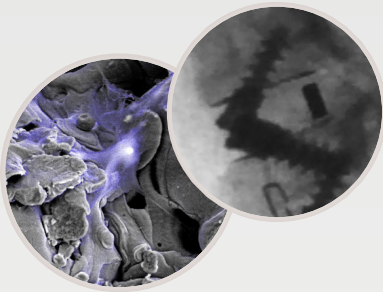
Avg. Fusion Rates Across One & Multiple Levels
observed over three retrospective clinical evaluations

Biomechanical stability of **STALIF C®** is statistically equivalent to traditional rigid anterior plating in one- and two-level constructs^{4,5,6,7,8}

Five independently executed evaluations demonstrate **STALIF C®** biomechanical data measuring:

- Flexion Extension
- Lateral Bending
- Axial Rotation

Ti-ACTIVE™: MICROPOROUS TEXTURIZED TITANIUM SURFACE

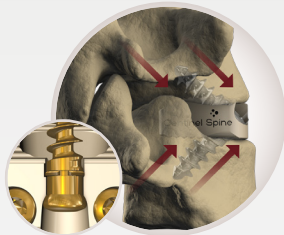


Ti-ACTIVE™ is an Osteophilic, Cell-friendly surface⁹

- 20x surface roughness compared to PEEK for added stability¹⁰
- 2x cellular adhesion of hMSCs compared to coarser Ti-coated PEEK surfaces⁹
- 20x cellular proliferation compared to other titanium surfaces⁹

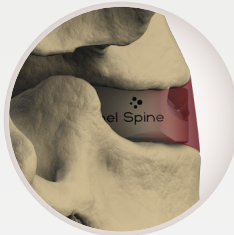
* human Mesenchymal Stem Cells (hMSCs)

PROVEN STALIF® DESIGN RATIONALE



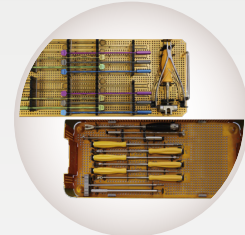
Integrated Compressive Lag Fixation

- Enhances stability with self-tapping, cancellous lag screws
- Compresses endplates to cage & graft providing optimized segmental loading to support bone development in line with Wolff's Law
- Zero-step locking with **CENTINEL SPINE's** Anti Back-Out (ABO®) Technology



No Profile® Design

- Allows the device to seat within the confines of the disc space, reducing the risk for dysphagia
- Spares tissue with smaller surgical envelope and simplifies surgical technique as no anterior plate is required



Simple, Elegant Instrumentation

- Allows for a direct A/P approach resulting in a tissue sparing surgical technique
- Versatile instruments to address challenging anatomy
- Proven 40% reduction in surgical time compared to traditional plate and cage constructs¹¹

¹Eishhabi, Said. "A Retrospective Clinical and Fusion Analysis of the Device with Stem-Cell Derivative Bone Graft Material". Presented at The Southern Neurosurgical Society's 66th Annual Meeting, Naples, FL, March 2015.
²Lane, Paul, et al. "Early Radiographic and Clinical Outcomes Study Evaluating an Integrated Screw and Interbody Spacer for One- and Two-Level ACDF". The International Journal of Spine Surgery, 9(39). C1:10.14444/2039.2015.
³Vokshoor, Amir, et al. "Retrospective Clinical Outcome Study Evaluating the Efficacy of the Stand-Alone Cervical Device in Anterior Cervical Discectomy and Fusion". Presented at The ISASS 15th Annual Conference, San Diego, CA, April 2015.
⁴Voronov, Leonard et al. "Integrated Interbody Fusion Device in a 2-Level Cervical Construct: Biomechanical Evaluation". Presented at The ISASS 14th Annual Conference, Miami Beach, FL, April-May 2014.
⁵Nayak, Aniruddh N. et al. "Biomechanical Analysis Of An Interbody Cage With Three Integrated Cancellous Lag Screws In A Two-Level Cervical Spine Fusion Construct: An In Vitro Study". The Spine Journal 14.12 (2014): 3002-3010.
⁶Kang, Daniel G. et al. "Biomechanical Stability Of The Stalif-C™ Stand-Alone Spacer In Multilevel And Hybrid Cervical Fusion Constructs". The Spine Journal 14.11 (2014): S121-S122.

⁷Stein, Matthew I. et al. "Biomechanics Of An Integrated Interbody Device Versus ACDF Anterior Locking Plate In A Single-Level Cervical Spine Fusion Construct". The Spine Journal 14.1 (2014): 128-136.
⁸Cappuccino, Andrew, et al. "Multi-Directional Flexibility Properties of the STALIF C Versus Conventional Methods of Interbody Cervical Arthrodesis: An In-Vitro Calf Model". Centinel Spine Internal Report, November 2007.
⁹Yoon, Byung Jo Victor et al. "Optimizing Surface Characteristics For Cell Adhesion And Proliferation On Titanium Plasma Spray Coatings On Polyetheretherketone". The Spine Journal (2016): n. pag. Web. 6 Oct. 2016.
¹⁰Centinel Spine Report VAL-2013-035.
¹¹STALIF C data is provided from three investigation sites (1 surgeon/site). Comparative data calculated from two studies: Hisey, MS, et al. Multi-center, Prospective, Randomized, Controlled Investigational Device Exemption Clinical Trial Comparing Mobi-C Cervical Artificial Disc to Anterior Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease in the Cervical Spine. International Journal of Spine Surgery, 8(7). doi:10.14444/1007.2014. Zigler, JE, et al. ProDisc-C and Anterior Cervical Discectomy and Fusion as Surgical Treatment for Single-Level Cervical Symptomatic Degenerative Disc Disease. Spine, 38(3), 203 - 209, 2013.