

rediscover™

REGAIN YOUR LIFE™

MAKE YOUR COMEBACK



with
prodisc® C Vivo

A Patient's Guide

CENTINEL 
SPINE®

*Note: All individuals portrayed have received a prodisc C family device.
Not all individuals portrayed have received a prodisc C Vivo implant.
This device is indicated and FDA-approved for T level.*

"I was in constant pain. It started to affect my daily life and I was unable to play golf. I knew I wanted a total disc replacement in order to maintain my range of motion and continue to function at a high level."

Brian Gay, 5-Time US PGA Tour Winner





THERE IS *hope*

- Do you have neck or arm pain and/or a loss of function or neurological symptoms such as numbness or weakness?
- Have you been diagnosed with a herniated disc, osteophytes, osteoarthritis, or loss of disc height?
- Has your surgeon indicated that you might be a candidate for disc replacement surgery?

The *prodisc*[®] C Vivo Total Disc Replacement gives you an option.

This brochure is designed to provide you with answers to questions you may have about why **prodisc** may be the best option if you are considering disc replacement surgery or an alternative treatment.



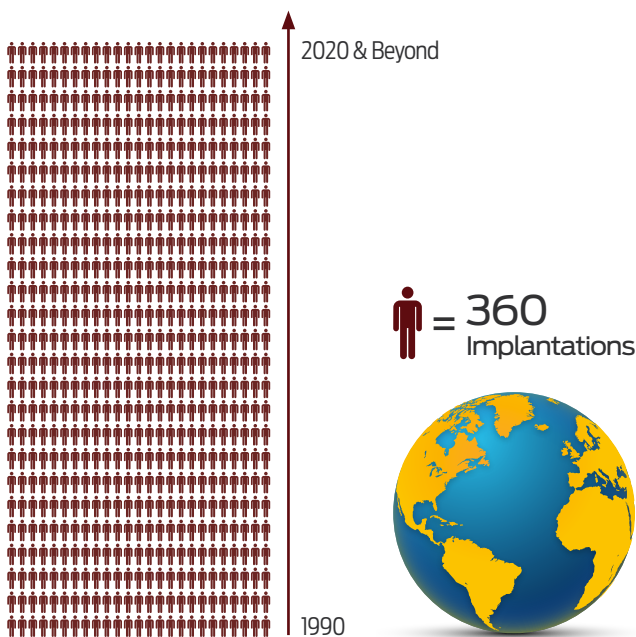
WHY CONSIDER **prodisc C Vivo?**

The **prodisc** technology is the most studied and clinically-proven total disc replacement system in the world. Beginning with clinical usage in 1990, the **prodisc** design has been validated with over 225,000 device implantations worldwide¹ and more than 540 published papers.²

prodisc C has been shown to facilitate a quicker return to active life.³ It has also been shown to enable patients to retain their range of motion, enabling the spine to flex over the long-term.

“I’ve been an advocate of **prodisc** from the very beginning. Being a patient myself, I understand what the journey is like. This procedure allows my patients to return to their lives.”

Dr. Robert Masson, Neurosurgeon & prodisc Recipient

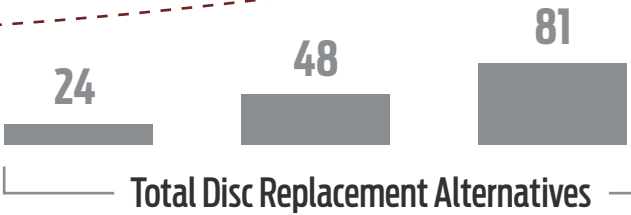


~225,000 **prodisc** Implantations Worldwide Since 1990⁴

the most studied and clinically proven

TOTAL DISC REPLACEMENT IN THE WORLD²

The number of published studies for competitive total disc replacement alternatives pale in comparison to the extensively researched and clinically proven success of the **prodisc** Total Disc Replacement.

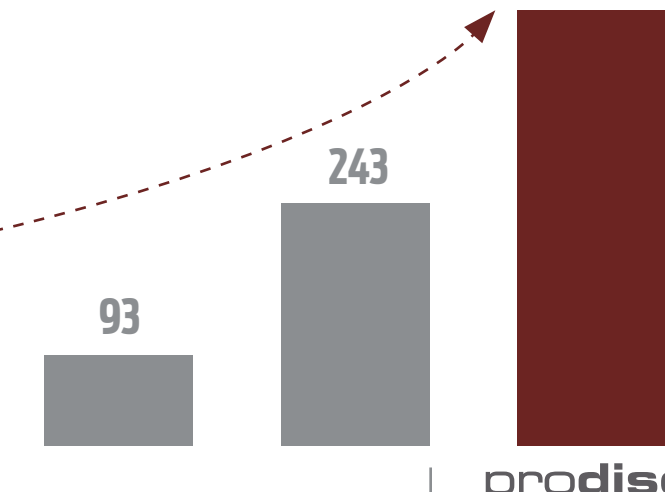


“Before I met my spine surgeon, I didn’t know that **prodisc** was a less invasive option for me. With the total disc replacement, it’s like I’ve never had a neck problem!”

Andrea L., Hollywood Trainer

540+²

prodisc
Studies



prodisc®



RETURN TO *active life*

Patients consider a total disc replacement to reduce pain and to provide a means of returning to active life.

Activities appropriate for military personnel were analyzed in a study of active-duty military patients that had received a **prodisc** or a fusion procedure. It was found that while all of the patients returned to active duty, **prodisc** patients returned more rapidly—on average 38% faster.³

The results of this study on young, active military personnel is indicative of the superior clinical results experienced by **prodisc** patients across many published studies.

Results of Study of Active Duty Military Patients that Received a **prodisc or a Fusion Procedure**

Variable	prodisc C	Fusion
# of Patients	12	12
Average Age	36.5	36.1
# Returned to Full Duty	12	12
Time to Return to Full Duty (weeks)	10.3	16.5

“Five of the 7 Navy SEALs in [the **prodisc**] group reported returning to free-fall parachute jumping and high-impact water entries.”³



Return to an Active Life



proven

SAFETY & EFFECTIVENESS

Many studies have determined that **prodisc C** and other endplate option variants including **prodisc C Vivo** are safe and effective⁵ (variants utilize a consistent mechanism of action, however endplate options vary to suit patient anatomy). The study with the longest follow-up data is from the US Investigational Device Exemption (IDE) study in the U.S., conducted to gain FDA approval of **prodisc C** in 2007. This IDE Study compared the use of **prodisc C** to fusion, the standard of care at the time.

“Overall, it appears that total disc arthroplasty with **prodisc C** has similar clinical and patient outcomes, has a higher device survival rate, and is followed by fewer secondary surgical procedures than fusion.”

From 2007 IDE Study⁶

4X FEWER RE-OPERATIONS

with **prodisc C** at
7 years compared to fusion
with a plate & bone⁷

The IDE Study evaluated the likelihood that a patient would require a re-operation after the implantation of the **prodisc C**. Patients were followed over seven years and monitored for pain relief, mobility, and re-operation.

The resulting published papers showed that:

- **prodisc C** is a safe and effective surgical treatment
- **prodisc C** provides durable results
- Patients treated with **prodisc C** had a 4x lower probability of re-operation

Studies specific to **prodisc C Vivo** have confirmed these results.⁸

“I probably feel better today than when I was 30 years old! Since having **prodisc** implanted, I have no issues with my neck and have full range of motion.”

Rory Sabbatini, 6-Time US PGA Tour Winner

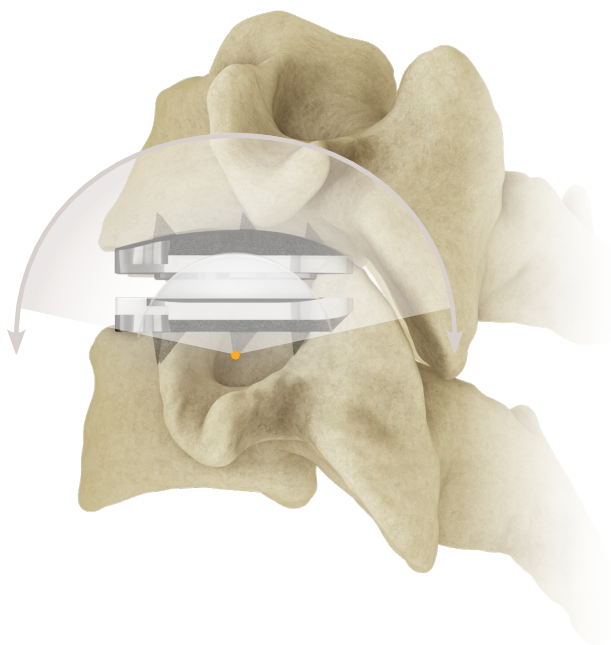


Rory Sabbatini celebrates his hole-in-one at the 2019 U.S. Open.

prodisc ENABLES *motion*

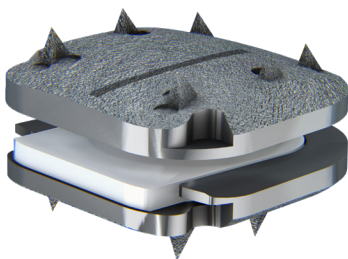
In the past, fusion was typically used to surgically treat patients with spine-related pain or loss of function. However, fusing a segment of the spine ultimately reduces mobility.

prodisc was developed as an alternative to spinal fusion, enabling controlled and predictable motion while providing stability in the spine.



prodisc C Vivo *summary*

prodisc **C** has been proven to be an effective solution for some individuals suffering from upper extremity or neck pain, loss of function, or neurological symptoms. Results from prodisc studies over the last 30 years indicate a lower re-operation rate, quicker return to active life, and continued mobility at the operated level of the spine. Studies have also demonstrated high levels of patient satisfaction with the use of prodisc.⁷



prodisc **C Vivo**

REFERENCES:

¹Data on file at Centinel Spine. ² Search performed on Pubmed, Embase, Ovid Medline® covering 1988 – 2021. ³ Tumialan, L.M., et al., Arthroplasty in the military: a preliminary experience with ProDisc-C and ProDisc-L. *Neurosurgical focus*, 2010, 28(5): p. E18. ⁴ Implantations of the prodisc family of devices; stats compiled from Spine Solutions, Synthes Spine, DePuy Synthes, and Centinel Spine. ⁵ Cao S, Zhao Y, et al. Single-Level Cervical Arthroplasty with Prodisc-C Vivo Artificial Disc: Five-Year Follow-Up Results from One Center. *Spine (Phila Pa 1976)*. 2022 Jan 15;47(2):122-127. ⁶ Murrey D, et al, Results of the prospective, randomized, controlled multicenter Food and Drug Administration investigational device exemption study of the ProDisc-C total disc replacement versus anterior discectomy and fusion for the treatment of 1-level symptomatic cervical disc disease, *The Spine Journal*, 9 (2009), 275-286. ⁷ Janssen ME, et al, ProDisc-C Total Disc Replacement Versus ACDF for Single-Level Symptomatic Cervical Disc Disease, *JBJS*, 2015, 97:1738-47. ⁸ Pehlivanoglu, T et al, Clinical and Radiographic Outcome of Patients With Cervical Spondylotic Myelopathy Undergoing Total Disc Replacement, *Spine*, Oct. 2019, Vol 44; 20 pp 1403-1411.

“By 6 months post-op, I felt like I was functioning at 100%. With **prodisc C**, I am able to return my patients to full activity—usually within 3 weeks.”

Dr. Todd Lanman, Neurosurgeon & prodisc Recipient



If you have questions...

Speak to your doctor or visit our website.

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REGAIN YOUR LIFE™

www.rediscovermylife.org

About

CENTINEL SPINE®

CENTINEL SPINE offers a continuum of trusted, brand-name motion-preserving and fusion solutions backed by over 30 years of clinical success—providing the most robust and clinically-proven Total Disc Replacement and Integrated Interbody™ fusion portfolios in the world.



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