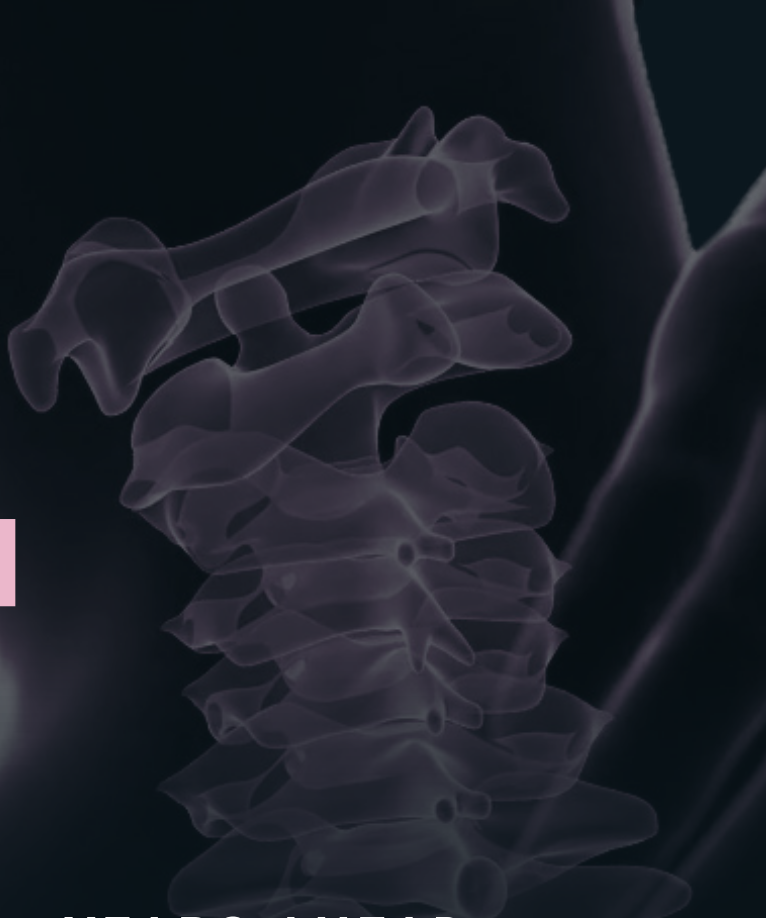
BIOLOX®
MATERIAL
MATTERS®



CERAMIC IN SPINE

WHAT SHOULD SURGEONS KNOW ABOUT CERAMICS?

Biocompatible & Hypoallergenic

BIOLOX®*delta* is a high-performance ceramic free from toxic metal ions, with excellent biocompatibility proven in millions of hip implantations worldwide. It reduces the risk of metal hypersensitivity and adverse reactions — a significant benefit for metal-sensitive patients.

Imaging-Compatible

BIOLOX®*delta* is electrically nonconductive, nonmetallic, and nonmagnetic.

Tissue-Friendly

BIOLOX®*delta* ceramic shows exceptionally low biological activity, as demonstrated in decades of hip studies, where it generates minimal inflammatory response, even under demanding mechanical conditions.

YEARS AHEAD

BIOLOX®*delta* ceramic - trusted in close to 30 million orthopedic implants - is driving the next generation of cervical total disc replacement.

CLINICALLY PROVEN OUTCOMES

CeramTec's BIOLOX®*delta* technology brings lasting value to motion-preserving spinal solutions. Let's shape the future of cervical arthroplasty - together.

91.1%

SUCCESS RATE

Guyer et al.: 91.1% success rate with the Simplify® Disc vs. 74.6% with ACDF at 5 years.

References:

Guyer RD, Bae H, Coric D, Nunley PD, et al. Five-year follow-up of a prospective Food and Drug Administration investigational device exemption trial evaluating a PEEK-on-Ceramic cervical disk replacement. *Spine (Phila Pa 1976).* 2025;50(1):1-9. doi:10.1097/BRS.0000000000005123.

Ganko R, Madhavan A, Hamouda W, et al. Spinal implant wear particles: Generation, characterization, biological impacts, and future considerations. *iScience.* 2025;28(4):112193. doi:10.1016/j.isci.2025.112193.

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THE CERAMIC EXPERTS