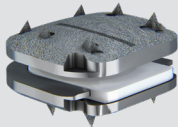
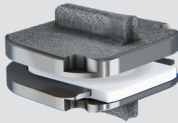
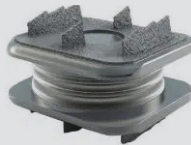


prodisc C Vivo & prodisc C SK

COMPETITIVE COMPARISON | vs. M6-C™



Company		Centinel Spine		Orthofix
Device		prodisc® C Vivo	prodisc® C SK	M6-C™
CLINICAL HISTORY	Device Image			
	1st Year of Clinical Use	2009	2019	2006
	Regulatory Approval	FDA Approval: 2022	FDA Approval: 2022	FDA Approval: 2019
	Indications	One-Level		One-Level
	Number of Implantations	Over 275,000 implantations of the prodisc technology platform ¹		Over 100,000 implantations of the M6 artificial disc technology ² As of February 25, 2025, Orthofix has “decided to discontinue its M6-C™ artificial cervical disc and M6-L™ artificial lumbar disc product lines ³
	Published Studies	Over 540 peer-reviewed published studies on the prodisc technology platform ⁴		40 ⁵
Summary		prodisc is the most studied and clinically proven TDR technology in the world. Since 1990, the prodisc design has been validated with over 275,000 device implantations worldwide ¹ and more than 540 published papers ⁴ . Per U.S. complaint data since 2006, prodisc has a less than 1% reported revision rate. ⁶		
DEVICE OVERVIEW	Kinematics	Fact	Ball & Socket: Fixed Core with an Optimized Core Radius	Artificial Nucleus and Annulus – Compressible Viscoelastic Nucleus with Dynamic Center of Rotation. ⁷
		Benefit	All prodisc devices utilize prodisc CORE technology: a fixed core and an optimized core radius that together provide stability while resisting shear forces and facilitate controlled motion to protect the facet complex. ^{8,9}	Marketed as a device designed to mimic the structure and movement of a natural disc. ¹⁰ Long term kinematic clinical outcomes yet to be determined.

References: ¹ Data on file at Centinel Spine compiled from Spine Solutions, Synthes Spine, DePuy Synthes, and Centinel Spine. ² Orthofix Announces Publication in The Spine Journal of Five-Year Data for the M6-C Artificial Cervical Disc. (2023, November 30). Retrieved August 15, 2024, from <https://orthofix.com/blog/orthofix-announces-publication-in-the-spine-journal-of-five-year-data-for-the-m6-c-artificial-cervical-disc/>. ³ Orthofix Reports Fourth Quarter and Full-Year 2024 Results and Provides 2025 Financial Guidance. (2025, February 25). Retrieved February 28, 2025, from <https://ir.orthofix.com/news/news-details/2025/Orthofix-Reports-Fourth-Quarter-and-Full-Year-2024-Results-and-Provides-2025-Financial-Guidance/default.aspx>. ⁴ PubMed and peer-reviewed journals through 2024. ⁵ PubMed and peer-reviewed journals through February 28, 2025. ⁶ Periodic Update Safety Report for prodisc on file with Centinel Spine. ⁷ Phillips FM, Coric D, Sasso R, Lanman T, Lavelle W, Laurysen C, Albert T, Gammissa F, Miam RA. Prospective, multicenter clinical trial comparing the M6-C compressible cervical disc with anterior cervical discectomy and fusion for the treatment of single-level degenerative cervical radiculopathy: 5-year results of an FDA investigational device exemption study. Spine J. 2024 Feb;24(2):219-230. doi: 10.1016/j.spinee.2023.10.020. Epub 2023 Nov 10. PMID: 37951477. ⁸ Sears, R., et al., (2006) Kinematics of Cervical and Lumbar Total Disc Replacement. Seminars Spine Surgery, 18(2), 117-129. <https://doi.org/10.1053/j.semss.2006.03.013>. ⁹ Bertagnoli R, Marnay T, Mayer H.M., The PRODISC Book, 2003. ¹⁰ M6 website, The M6-C Artificial Disc Replacement Device – m6disc.com, accessed August 19, 2024. ¹¹ M6-C Surgical Technique, Orthofix Holdings, MKT 0163 Rev. 02, M6-C-1911. ¹² Summary of Safety and Effectiveness Data (SSED) for M6-C Artificial Cervical Disc. <https://www.accessdata.fda.gov/drugs/ocdr/docs/pdf/717/P700368.pdf>. ¹³ Nunley, P., (2024, September 25-28). Contra-Indications: Complications and How to Avoid Them. R. Goyer, J. Shellock (chairs), Cervical and Lumbar Total Disc Replacement: Expanding Indications and When Not To [Symposium]. North American Spine Society (NASS) Annual Meeting, Chicago, IL, United States. ¹⁴ Scott-Young M, Rathbone E, Grierson L. Midterm osteolysis-induced aseptic failure of the M6-C™ cervical total disc replacement secondary to polyethylene wear debris. Eur Spine J. 2022 May;31(5):1279-1282. ¹⁵ Late Failure of Cervical Disc Arthroplasty Due to Osteolysis, Blumenthal, S.L., et al., presented at North American Spine Society, 5/15/21. ¹⁶ Häckel S, Gaff J, Pabbruwe M, Celenza A, Kern M, Taylor P, Miles A, Cunningham G. Heterotopic ossification, osteolysis and implant failure following cervical total disc replacement with the M6-C™ artificial disc. Eur Spine J. 2024 Mar;33(3):1292-1299. doi: 10.1007/s00586-024-08129-5. Epub 2024 Feb 16. PMID: 38363365. ¹⁷ Australian Government, Department of Health Therapeutic Goods Administration, Reference RC-2020-RN-00478-1, System for Australian Recall Actions (SARA) database | Therapeutic Goods Administration (TGA), 2/6/2020.

