



BIO DISC

SETTING A NEW STANDARD IN HOMOLOGOUS USE.



Bio Disc is a minimally invasive technique that can be administered using a 22G spinal needle.



The Bio Disc allogeneic allograft is sterile, single use and shelf stable at room temperature for 3 years. There is no need for cryopreservation. Simply reconstitute with normal saline and apply. The BioDisc solution streamlines workflow, reduces the possibility of contamination, and standardizes dose per disc application.



Bio Disc is allogenic and as such immune-privileged and naturally antimicrobial. BioDisc dramatically reduces the adverse events of effusion and infection more commonly documented with autologous intra-disc allografts. Nuclei pulposi materials, particularly those derived from donors or xenografts, carry a higher risk profile and may provoke immune responses or inconsistent outcomes.



Bio Disc contains a comprehensive mix of cytokines, growth factors, extracellular matrix proteins, and growth differentiation factors. Together these components may down regulate inflammation, support intra-disc rehydration, and promote the micro-architectural scaffolding necessary for comprehensive collagenic differentiation both in the annulus fibrosis and the nucleus propulsus.

About Bio Disc

Bio Disc is the first Placental Matrix Allograft designed to address collagen deficiencies in both the Nucleus Pulposus and Annulus Fibrosus. Bio Disc combines types I, II, and III collagen with GDF5 for superior Human Cell and Tissue Transplant Procedures. Bio Disc is the new standard to support structural function in the intervertebral disc while also supplementing the loss of tissue. Bio Disc matches the same microarchitecture building blocks setting a new standard in Homologous Use.

Disc Degeneration

Disc degeneration usually starts in the nucleus pulposus (NP). With time, activity and even trauma, the NP may lose its capacity to retain water and nutrients, resulting in collapse of disc height, and compromise of the disc integrity to cushion and support the vertebral column. Characteristics of disc degeneration include diminished disc height, reduced intra-disc water content, and a decrease in the disc's resilience to stress and load bearing.

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