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Lumbar and cervical viscoelastic disc replacement: concepts and current experience

Jean Yves Lazennec

Abstract

The ideal lumbar and cervical discs should provide six degrees of freedom and tri-planar (three-dimensional) motion. Although all artificial discs are intended to achieve the same goals, there is considerable heterogeneity in the design of lumbar

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Publish Year: 2016

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Cited by: 4

Author: Jean-yves Lazennec, Alain Aaron, Olivier ...

Publish Year: 2016

位置: 8600 Rockville Pike, Bethesda, MD

The **viscoelastic cervical disk** prosthesis ESP is an innovative one-piece deformable but cohesive interbody spacer. It is an evolution of the LP ESP **lumbar disk** implanted since 2006. CP ESP provides six full degrees of freedom about the three axes including shock absorbtion.

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Modern **cervical** artificial **disc replacement** (C-ADR) first made its debut in 1991, with the Bristol/Cummins **disc**, the first of numerous articulating C-ADR devices (Fig. 2). The original devices were implanted by Cummins in 20 patients, who later reported that some continued to function well, up to 12 years after implantation. 2 Results from these early articulating mechanical devices were ...

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Lumbar total **disc replacement** (TDR) is an evolving technique that has the potential to replace arthrodesis as the gold standard surgical treatment of degenerative **disc** disease.

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