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شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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بالرسالة صفحات لم ترد بالاصل

Evaluation of lumbar interbody fusion using cages

Thesis

Submitted for partial fulfillment of M.D. Degree in Orthopaedics

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Contents

Introduction

. Spinal fusion is a popular management option in the management of degenerative disc disease. Posterior, posterolateral and interbody fusions both anterior and posterior have been successfully used alone or in combinations. The addition of instrumentation has improved success rates in many series.

Interbody fusions have long been shown to achieve solidity in a high percentage of cases. Fusion material placed inside the center of segmental motion is in the best location permanently to arrest motion, create a solid fusion, and obliterate the degenerated nucleus.

Because any movement within the developing bone or fibrous tissue ingrowth can interfere with fusion development, the rate and quality of fusions can be improved both by rigid stabilization and protection of the bones being fused.

Interbody fusion techniques using cages are beginning to take a prominent place among other major techniques for lumbar fusion.

Cages are said to offer distinct biomechanical advantages. They provide initial distraction and support axial load, thereby eliminating the need for structural support provided by bone graft. Cages also provide initial segmental stability by tensioning the ligamentous apparatus.[181]

In the last decade several vertebral interbody cages of different designs were developed for the use with either an anterior or posterior approach.

Aim of the work

The aim of this work is to assess the role of anterior lumbar interbody fusion using SynCage supplemented with transfacetal fixation with Magerl's screws in patients with discogenic back pain depending on finding the anatomic source of pain and the pathologic mechanism involved.