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Spinal Benign Tumors Treated by full Endoscopy Interlaminar approach

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Introduction: Percutaneous endoscopic technique has been used to treat disk herniation and spinal stenosis, so far we have very few reports to treat benign spinal tumors treated by this minimally invasive treatment. We would like to present some cases of lumbar benign spinal tumors removed by full endoscopic approach

Purpose

We´ve described 4 cases of benign lumbar spinal tumors, that were teated by full endoscopy in a period of two years. The patients had no major neurological signals, only back pain associated or not with radicular symptoms. The M.R.I demontrated small lesions in the lumbar field measuring from 1.0 cm to 4.0 cm.

Methods

We've performed all the procedures with a single skin incision less than o8 mm,placing the working canula between the interlaminar bone window, accordind to the level related to the lesion, making a enlargement under assistance of diamond burr to expose the ligamentum flavum from the base to the tip of the ascending facet to make a good exposition of the surgical area. After opening the ligamentun flavum, the tumors were totally removed piecemeal under endoscopic guidance. The procedures lasted less than three hours with no support in intensive care unit and the pathological examination confirmed : 01 case of angiolipoma, 02 cases of Schwannoma and one case of neurinoma.

Results

All the patients had a hospital discharge less than twelve hours after the surgical procedure with complete relief of neurological symptoms and using minor pain killer to control the back pain.

Conclusions

The full endoscopy is a safe option to treat spinal benign spinal tumors in very selected cases even tough we need some more proper tools to perform these procedures

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