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基质金属蛋白酶组织抑制因子-2在退变腰椎间盘髓核与纤维环组织的表达及意义 [点此下载全文](#)

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摘要:

摘要目的: 测定基质金属蛋白酶组织抑制因子-2 (TIMP-2) 在退变椎间盘组织髓核与纤维环细胞中的表达, 探讨其在椎间盘退变中的意义。方法: 选取腰椎间盘突出症患者手术摘除椎间盘标本30例, 分离椎间盘髓核与纤维环组织, 设为实验组。创伤致腰椎椎体骨折经手术摘除椎间盘组织标本10例作为对照组。采用免疫组织化学法检测两组椎间盘组织髓核与纤维环细胞中TIMP-2的表达。结果: TIMP-2在椎间盘组织髓核与纤维环细胞的表达中, 实验组阳性率多于对照组 ($P < 0.01$); 在髓核细胞中的表达要强于纤维环, 而且不同退变程度的表达也不同, TIMP-2在突出型中的表达较正常对照组组织标本中的表达增高 ($P < 0.01$), TIMP-2在脱出型和游离型组织标本中的表达较突出型有所增高 ($P < 0.01$)。结论: 实验组椎间盘髓核与纤维环细胞中TIMP-2表达程度与椎间盘退变程度呈正相关; TIMP-2参与了人类腰椎间盘组织的退变过程, TIMP-2可能作为MMPs的一个重要调节因素, 与MMPs相互协调。

关键词: [椎间盘退变](#) [基质金属蛋白酶](#) [基质金属蛋白酶抑制剂-2](#)

Expressions of tissue inhibitor of metalloproteinases-2 in the degenerative lumbar intervertebral disc [Download Fulltext](#)

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Fund Project:

Abstract:

Abstract Objective: To observe the expressions of tissue inhibitor of metalloproteinase-2 (TIMP-2) in the nucleus pulposus cells and the fibrous ring cells of degenerated intervertebral disc. **Method:** Immunohistochemistry assay were used to detect the expressions of TIMP-2 in nucleus pulposus cells and fibrous ring cells in 40 patients with lumbar disc protrusion. Thirty cases with lumbar disc protrusion were recruited in experimental group and ten cases with lumbar fracture by trauma were in control group. **Result:** The expressions of TIMP-2 in nucleus pulposus and fiber rings was more in experimental group than control group ($P < 0.01$); and the expressions in nucleus pulposus were superior to that in fiber rings, There were significant differences in TIMP-2 expression levels between the sequestration and transligamentous extrusion, between the extrusion and protrusion, between the control group and protrusion ($P < 0.01$). **Conclusion:** The expressions of TIMP-2 in the disc nucleus pulposus and fiber ring cells were positively correlated with disc degeneration; TIMP-2 might participate in the degeneration of human intervertebral discs and coordinate each other. They were very important in the degeneration of cartilage in disc degeneration.

Keywords: [disc degeneration](#) [matrix metalloproteinae](#) [tissue inhibitor of metalloproteinae-2](#)

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