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6卷23期 2012年12月 [最新]

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## 椎间盘突出症CT椎间盘造影诊断的荟萃分析

王文轩, 徐晓雪, 杜勇, 杨汉丰, 肖冬梅, 李兵

637007 四川南充, 川北医学院附属医院放射科(王文轩、徐晓雪、杜勇、杨汉丰、肖冬梅、李兵), 医学影像四川省重点实验室(杨汉丰)

杨汉丰, Email: yhf5@nsmc.edu.cn

**摘要：**目的 用荟萃(Meta)分析评价CT椎间盘造影(CTD)对椎间盘突出症的诊断价值。方法 检索Pubmed、中国期刊全文数据库(CNKI)、中国生物医学文献数据库(CBM)和万方数据库中的相关文献,结合Cochrane协作网推荐的评价标准,提取纳入研究的特征信息并采用2011年版QUADAS/STARD评价系统对纳入文献进行质量评估,绘制Deeks漏斗图、Bivariate模型进行数据分析、合并:进行异质性检验,亚组分析讨论异质性来源;合并得到阳性似然比、阴性似然比、灵敏度、特异度及95%可信区间,绘制灵敏度特异度的森林图;绘制汇总受试者工作特性曲线(SROC)并计算曲线下面积,共含病例533例(999个椎间盘);合并灵敏度、特异度及95%可信区间分别为0.901(0.773~0.960)、0.848(0.773~0.915)、95%可信区间为0.93(0.91~0.95)。结论 对于椎间盘突出症的诊断, CTD具有较高的灵敏度、特异度和准确率,可作为临床诊断方法之一。

**关键词:** 椎间盘移位; 体层摄影术, X线计算机; 椎间盘造影; 诊断; Meta分析

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**文献标引:** 王文轩, 徐晓雪, 杜勇, 杨汉丰, 肖冬梅, 李兵. 椎间盘突出症CT椎间盘造影诊断的荟萃分析[J/CD]. 2012, 6(19):5948-5952.

### 参考文献:

- [1] Gaskill MF, Lukin R, Wiot JG. Lumbar disc disease and stenosis. Radiol Clin North Am. 1994; 32:764. :[PubMed]
- [2] LINDBLOM K. Diagnostic puncture of intervertebral disks in sciatica. Acta Orthop Scand, 1948, 17:231-239. :[PubMed]
- [3] Videman T, Malmivaara A, Mooney V. The value of the axial view in assessing disc herniation: An experimental study with cadavers. Spine (Phila Pa 1976), 1987, 12:299-304. :[PubMed]
- [4] Carragee EJ, Barcohana B, Alamin T, et al. Prospective controlled study of the development of low back pain in previously asymptomatic subjects undergoing experimental discography. Spine (Phila Pa 1976), 2004, 29:1112-1117. :[PubMed]
- [5] Carragee EJ, Alamin TF, Carragee JM. Low-pressure positive Discography in subjects with significant low back pain illness. Spine (Phila Pa 1976), 2006, 31:505-509. :[PubMed]
- [6] Derby R, Kim BJ, Lee SH, et al. Comparison of discographic findings in asymptomatic

and the negative discs of chronic LBP patients:can discography distinguish asymptomatic morphologically abnormal discs?Spine J, 2005, 5:389–394. :[\[PubMed\]](#)

[7] 陈兴灿, 刘乃芳, 李晓红. MRI和CT椎间盘造影对腰椎间盘破裂诊断的比较研究. 中华放射学杂志, 2005, 49(11): 1164.

[8] 童培建, 何帮剑, 厉驹, 等. 腰椎间盘突出症术后疗效分析[J/CD]. 中华临床医师杂志:电子版, 2008, 2(1): 103–106.

[9] Lim CH, Jee WH, Son BC, et al. Discogenic lumbar pain:association with MR imaging findings and discography. Eur J Radiol, 2005, 54:431–437. :[\[PubMed\]](#)

[10] Kokkonen SM, Kurunlahti M, Tervonen O, et al. Endplate degeneration observed on magnetic resonance imaging of the lumbar spine:correlation with pain provocation and disc changes observed on CT and CT diskography. Spine(Phila Pa 1976), 2002, 27:2274–2278. :[\[PubMed\]](#)

[11] The cochrane methods group on systematic review of screening and diagnostic test accuracy methods. <http://www.Cochrane.org/docs/sadtoc1.htm>.

[12] Whiting P, Rutjes AW, Reitsma JB, et al. The development of QUADAS:a tool for the critical assessment of studies of diagnostic accuracy included in systematic reviews. BMC Med Inform Decis Mak, 2003, 3:25. :[\[PubMed\]](#)

[13] Oliveira MR, Gomes Ade C, Toscano CM. QUADAS and STARD:evaluating the quality of diagnostic accuracy studies. Rev Saude Publica, 2011, 45:416–422. :[\[PubMed\]](#)

[14] Deeks JJ, Macaskill P, Irwig L. The performance of tests of publication bias and other effects in systematic reviews of diagnostic test accuracy was assessed. J Clin Epidemiol, 2001, 54:893–899. :[\[PubMed\]](#)

[15] Ohnmeiss DD, Vanharanta H, Guyer RD. The association between pain drawings and computed tomographic/discographic pain responses. Spine(Phila Pa 1976), 1995, 20:729–733. :[\[PubMed\]](#)

[16] Bernard TN Jr. Using computed tomography/discography and enhanced magnetic resonance imaging to distinguish between scar tissue and recurrent lumbar disc herniation. Spine(Phila Pa 1976), 1990, 15:2832. :[\[PubMed\]](#)

[17] Bischoff RJ, Rodriguez RP, Gupta K, et al. A comparison of computed tomography-magnetic resonance imaging, and myelography in the diagnosis of herniated nucleus pulposus and spinal stenosis. Spinal Disord, 1993, 6:289–295. :[\[PubMed\]](#)

[18] Milette PC, Raymond J, Fontaine S. Comparison of high-resolution computed tomography-discography in the evaluation of lumbar disc herniations. Spine(Phila Pa 1976), 1990, 15:2832–2837. :[\[PubMed\]](#)

[19] Jackson RP, Becker GJ, Jacobs RR, et al. The neuroradiographic diagnosis of lumbar nucleus pulposus:I. A comparison of computed tomography(CT), myelography, CT-myelography, and CT-discography. Spine(Phila Pa 1976), 1989, 14:1356–1361. :[\[PubMed\]](#)

[20] McCutcheon ME, Thompson WC 3rd. CT scanning of lumbar discography.A useful diagnostic adjunct. Spine(Phila Pa 1976), 1986, 11:257–259. :[\[PubMed\]](#)

[21] 袁强, 田伟, 程晓光, 等. 腰椎间盘疾患诊治中腰椎间盘造影后计算机体层摄影术与磁共振成像的比较. 中华医学杂志, 2006, 86(12):2166–2170.

[22] 于学文, 牛刚, 杨健, 等. 腰椎间盘突出症CT、MRI诊断的定量评价. 中华医学杂志, 2011, 9

[23] van Rijn RM, Wassenaar M, Verhagen AP, et al. Computed tomography for the diagnosis of spinal pathology in adult patients with low back pain or sciatica:a diagnostic systematic review. Spine J, 2012, 21:228–239. :[\[PubMed\]](#)

[24] Wassenaar M, van Rijn RM, van Tulder MW, et al. Magnetic resonance imaging for the diagnosis of spinal pathology in adult patients with low back pain or sciatica:a diagnostic systematic review. Spine J, 2012, 21:220–227. :[\[PubMed\]](#)

[25] Mengoli C, Cruciani M, Barnes RA, et al. Use of PCR for diagnosis of invasive aspergillosis:systematic review and meta-analysis. Lancet Infect Dis, 2009, 9:89–96. :[\[PubMed\]](#)

[26] Westerlaan HE, van Dijk JM, Jansen-van der Weide MC, et al. Intracranial aneurysms:subarachnoid hemorrhage:CT angiography as a primary examination tool for diagnosis--and meta-analysis. Radiology, 2011, 258:134–145. :[\[PubMed\]](#)

[27] Arends LR, Hamza TH, van Houwelingen JC, et al. Bivariate random effects meta-analysis curves. Med Decis Making, 2008, 28:621–638. :[\[PubMed\]](#)

[28] Reitsma JB, Glas AS, Rutjes AW, et al. Bivariate analysis of sensitivity and specificity and informative summary measures in diagnostic reviews. J Clin Epidemiol, 2005, 58:982–990.

[29] 曾宪明, 林建文, 赵家安. CT结合椎间盘造影(CTD)及其临床意义. 颈腰痛杂志, 2006, 27:

[30] Guyer RD, Ohnmeiss DD;NASS. Lumbar discography. Spine J, 2003, 3:11S–27S. :[\[PubMed\]](#)

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2012;6(19):5943–5947.

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