



前交叉韧带损伤的双能量CT表现

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Features of the Dual energy Technique with Dual-source Computed Tomography for Anterior Cruciate Ligament Injuries

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摘要 目的 探讨双源CT双能量技术在前交叉韧带损伤诊断中的应用价值。方法 分析我院经关节镜手术证实的8例患者的双源CT资料。所有患者行多平面重建、容积再现等二维、三维重建及双源CT上肌腱模式重建,并将双能特征与其关节镜结果进行对照分析。结果 诊断前交叉韧带损伤6例,全部与关节镜结果一致;诊断前交叉韧带正常2例,其中1例与关节镜结果一致、1例漏诊;总体诊断符合率为87.5% (7/8)。损伤的前交叉韧带表现为双能肌腱模式下双能染色低于患者对侧正常的前交叉韧带。结论 双能量染色减少可能是前交叉韧带损伤诊断的新的征象。

关键词: X线计算机 体层摄影术 双能量 前交叉韧带 损伤

Abstract: Objective To explore the diagnostic value of the dual-energy technique with dual-source computed tomography (DSCT) for anterior cruciate ligament injuries. Methods The clinical data of 8 patients with arthroscopic results were retrospectively reviewed. All patients underwent two- and three-dimensional imaging by multiplanar reconstruction, volume rendering, and tendon mode on DSCT. Dual-energy characteristics were compared with arthroscopic results. Results Six patients who were arthroscopically diagnosed as anterior cruciate ligament injuries, all of them were also correctly diagnosed by DSCT. Two patients who were arthroscopically diagnosed as normal, one was also diagnosed as normal by DSCT and the other was misdiagnosed. The overall agreement rate was 87.5% (7/8). Under the dual energy tendon mode, the dual energy staining of the injured anterior cruciate ligament was lower than that of the contralateral normal cruciate ligament of the patient. Conclusion The staining diminution in DSCT imaging may be a new feature that can be used to effectively diagnose anterior cruciate ligament injury."

Keywords: X-ray computed tomography dual-energy anterior cruciate ligament injury

Received 2010-10-12;

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引用本文:

柏瑞, 欧陕兴, 刘海凌, 乔国庆, 李凭跃, 黄华扬. 前交叉韧带损伤的双能量CT表现[J] 中国医学科学院学报, 2010, V32(6): 663-665

BAI Rui, OU Shan-Xin, LIU Hai-Ling, QIAO Guo-Qiang, LI Ping-Yue, HUANG Hua-Yang. Features of the Dual energy Technique with Dual-source Computed Tomography for Anterior Cruciate Ligament Injuries[J] CAMS, 2010, V32(6): 663-665

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