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定量T2-mapping评价半月板退变与膝关节骨性关节炎的相关性

Evaluation on the relationship between meniscal degeneration and osteoarthritis with T2-mapping

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中文摘要:

目的 利用定量T2-mapping评价半月板退变与膝关节骨性关节炎(OA)之间的关系。方法 收集85例OA患者患者(114个膝关节)行常规MR扫描、多回波自旋回波序列T2-mapping及膝站立位DR检查。对半月板损伤进行定性分级后,将患者分为病例组(半月板退变组,58例)和对照组(非半月板退变组,27例),分析两组关节软骨T2值的差异性,并验证半月板退变与软骨T2值的相关性。结果 ①病例组的软骨T2值(51.42 ± 4.13)ms高于对照组(43.27 ± 3.85)ms($P < 0.05$);②两组OA患者中内侧软骨单元的T2值均高于外侧软骨单元($P = 0.009$);③68.29%(84/123)的半月板损伤发生于内侧半月板的前角或后角;④半月板损伤级别与软骨T2值呈正相关($r = 0.34$);⑤病例组中30.08%(37/123)半月板退变处所对应的软骨单元T2值高于未发生退变处的软骨单元T2值。结论 T2-mapping评价半月板退变与OA之间呈正相关。

英文摘要:

Objective To assess the relationship between meniscal degeneration and osteoarthritis (OA) with T2-mapping. **Methods** Totally 85 patients with OA underwent multi-echo spin echo sequence for T2-mapping and routine conventional MR sequences and standing knee radiographs for the severity of OA. Then patients divided into case group (58 cases) and control group (27 cases). The difference of T2 values in 2 groups was analyzed, as well as the correlation between the degeneration of the meniscus and cartilage T2 values of cartilage. **Results** ①T2 value of cartilage in case group (51.42 ± 4.13)ms was significant higher than that in control group (43.27 ± 3.85)ms, $P < 0.05$; ②T2 values of medial compartment in 2 groups were higher than that in the lateral one ($P = 0.009$); ③There were 68.29% (84/123) meniscal lesions in anterior or posterior horn of the medial meniscus; ④There was positive correlation between the Stoller scores and the T2 values of cartilage ($r = 0.34$); ⑤T2 values of meniscal degeneration in cartilage compartment in 30.08% (37/123) case group were higher than that in without degeneration one. **Conclusion** T2-mapping can valuate the relationship between meniscal degeneration and OA, and there is positive correlation between them.

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