118年12月9日 星期日 首页 | 专家述评 | 期刊简介 | 编委会 | 投稿指南 | 期刊订阅 | 广告合作 | 留言板 | 联系我们 | English

复日学报(医学版)

医学经验交流

最新目录| 下期目录| 过刊浏览| 高级检索

◀◀ 前一篇 | 后一篇 ▶▶

3. OT MRI评估青年人群膝关节前交叉韧带(ACL)损伤的危险相关因素

吕琦1▲;马春辉2▲;王培军1△;邵志红1;赵小虎1;朱海燕1;张敏1

1间济大学附属间济医院医学影像科 上海 200065;2上海交通大学附属上海市第一人民医院骨科 上海 200080

Assessment of the related risk factors for anterior cruciate ligament (ACL) injury with 3.0T MRI

LV Qi1▲, MA Chun-hui2▲, WANG Pei-jun1△, SHAO Zhi-hong1, ZHAO Xiao-hu1, ZHU Hai-yan1, ZHANG Min1

1Department of Medical Imaging, Tongji Hospital, Tongji University, Shanghai 200065, China; 2Department of Orthopedics, Shanghai First People's Hospital, Shanghai Jiaotong University, Shanghai 200080, China

参考文献 相关文章 (5)

全文: PDF (967 KB) HTML (0 KB)

输出: BibTeX | EndNote (RIS)

伤的患者69例(其中男35例,女34例)及正常对照组62例(其中男33例,女29例)膝关节3.0T MRI扫描资料,比较MRI诊断ACL损伤的敏感性,特异性及准确性。测量不同性别人群及损伤组与正常组的膝关节形态,测量参数包括:股骨髁间凹的宽度(notch width,NW)、股骨内外侧 髁的意长(bicondylar width,BW)以及两者的比例即髁间窝宽度指数(NW index,NWI),内侧髁至髁间凹的宽度(medial condyle 异无统计学意义(P>0.05),青年男性与女性膝关节形态不同,男性膝关节的NWI较女性更小,在男性ACL损伤组与正常组相比,BW、L:M及 NWI的差异有统计学意义(P<0.05),ACL损伤组的NWI更小;而女性中ACL损伤组与正常组相比,各参数的差异均无统计学意义。所有参数 在活动的强度及损伤部位(左右)之间的差异均无统计学意义(P>0.05)。ACL损伤组与正常组相比,身高、体重、MTS及LTS的差异均无统 计学意义(P>0.05)。结论 较小的NWI很可能是青年男性ACL损伤的危险相关因素,BW及L:M是影响青年男性膝关节动力学的重要因素。 MTS和LTS可能无法作为膝关节ACL损伤的直接危险和关因素。

服务

- ▶加入我的书架
- ▶加入引用管理器
- ▶ E-mail Alert

作者相关文章

关键词: 膝关节, 前交叉韧带(ACL), 髁间窝宽度指数(NWI), 胫骨平台坡度

 $Objective \ \ To \ explore \ the \ related \ risk \ factors \ of \ anterior \ cruciate \ ligament \ (ACL) \ injury \ in \ the \ young \ people \ on \ 3.0T \ MRI$ scans.Methods MRI findings of patients confirmed ACL injury (including 69 cases of 35 males and 34 females) and 62 normal controls(including 33 males and 29 females) were retrospectively analyzed.We compared the diagnostic sensitivity, specificity and accuracy of MRI with operative results. The bone morphology between men and women, between the injured group and the control group were compared with 3.0T MRI.MRI measurements of notch with (NW), bicondylar width (BW), NW index (NWI), lateral condyle size (L), medial condyle size (M) and lateral to medial condyle ratio (L:M), medial tibial plateau slope (MTS) and lateral tibial plateau slope (LTS) were taken from all the subjects.Results MRI findings as compared with operative results showed specificity, sensitivity and accuracy were $respectively \ 94.2\%, 92.3\% \ and \ 93.5\%. We found \ a statistically significant \ difference in \ BW \\ \ L \ and \ NWI \ in \ 68 \ young$ males and 63 young females (P<0.05), while there was no difference in NW、M、L:M (P>0.05). There were differences between male and female young group. The knee morphology of the male is different from the normal group. NWI of the male knee joint was smaller than female. When knee morphology was compared between injured and normal subjects, the male group showed significant differences in BW, L:M and NWI (P < 0.05). For the female group, there was no difference in all parameters with and without ACL injury (P>0.05). Statistical analysis suggested that there was no difference with regard to age. activity intensity and injury site (P>0.05). There was no significant differences in height and weight in LTS and MTS between ACL injured and without injury (P>0.05).Conclusions Narrower NWI may be related risk factor for ACL injury in young male.BW and L:M may be important factors in influencing young male's knee joint dynamics.LTS and MTS may be not direct related risk related factors in young people with and without ACL injury.

Key words: knee joint anterior cruciate ligament (ACL) notch with index (NWI) tibial plateau slope

引用本文:

吕琦1▲;马春辉2▲;王培军1△;邵志红1;赵小虎1;朱海燕1;张敏1. 3.0T MRI评估青年人群膝关节前交叉韧带(ACL)损伤的危险相关因素[J]. 复旦学报(医学版), 2014, 41(05): 667-672. LV Qi1 ▲, MA Chun-hui2 ▲, WANG Pei-jun1△, SHAO Zhi-hong1, ZHAO Xiao-hu1, ZHU Hai-yan1, ZHANG Min1. Assessment of the related risk factors for anterior cruciate ligament (ACL) injury with 3.0T MRI. jms, 2014, 41(05): 667-672.

http://ims.fudan.edu.cn/CN/10.3969/i.issn.1672 8467.2014.05.017 或 http://ims.fudan.edu.cn/CN/Y2014/V41/I05/667

主管单位: 中华人民共和国教育部

地址:上海市医学院路138号285信箱

主办单位: 复旦大学

编辑出版: 《复旦学报(医学版)》编辑部

邮编: 200032

电话: 021-54237314,54237164 E-mail: xbyxb@shmu.edu.cn

刊号: ISSN 1672-8467 CN 31-1885/R

主编: 桂永浩

国内发行: 上海市报刊发行处

国外发行:中国国际图书贸易总公司(北京399信箱,邮编100044)

邮发代号: 国内4-262 国外 BM199

版权所有 © 2018《复旦学报(医学版)》编辑部

木刊全文数据库版权所有,未经许可,转载、链接及印刷或制作光盘都属违法,木刊将保留追究法律责任的权利。