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椎体骨折2周与4周内行椎体后凸成形术后疗效的比较研究

赵汝岗,唐海,杨帆,陈浩,贾璞,包利,冯飞,杨鹤,张湛金

100050 北京,首都医科大学附属北京友谊医院骨科

A comparison of vertebral height and bone cement leakage between surgical treatment within 2 weeks and 4 weeks by kyphoplasty for osteoporotic vertebral compression

Zhao Rugang, Tang Hai, Yang Fan, Chen Hao, Jia Pu, Bao Li, Feng Fei, Yang He, Zhang Zhanjin

Department of Orthopaedics, Beijing Friendship Hospital, Capital Medical University, Beijing 100050, China

- 摘要
- 图/表
- 参考文献
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摘要 目的 比较骨质疏松性椎体压缩骨折后2周内(接受手术时病程≤14d)与2~4周(14 d<接受手术时病程≤ 28d)行椎体后凸成形术 后椎体高度及骨水泥渗漏的情况。方法 回顾性分析2010年1月至2011年1月,采用椎体后凸 成形术治疗48例骨质疏松性椎体压缩骨折 患者资料,根据患者受伤至手术时间分为2周内和2~4周手术组,2周内手术 组22例,男4例,女18例;年龄54~85岁,平均71.17 岁。2~4周手术组26例,男5例,女21例;年龄56~88岁,平均73.12 岁。两组患者骨折椎体均位于T₇~L₄。比较两组患者年龄、性 别、骨密度T值、术前椎体高度丢失率、 术中注入骨水泥量、 术后椎体高度恢复率、术后1年椎体高度丢失率、骨水泥渗漏率。结果 2周内和2~4周手术组术前椎体压缩程度、骨水泥注入量、骨密度T值、椎体高度恢复率分别为47%±21%和48%±19%、(3.69± 1.03)ml和(3.66±0.71)ml、-2.79±0.57和-2.87±0.95、25%±8.3%和23%±7.7%,两组上述四项指标比较,差异均无统计学 意义。2周内手术组1年椎体高度丢失率为 9%±2.8%,2~4周手术组为11%±2.9%,两组比较差异有统计学意义。2周内和2~4周 手术组骨水泥渗漏率分别为22.2% (6/27)和11.8%(4/34),两组比较差异无统计学意义。结论 骨质疏松性椎体压缩骨折后,2周内与 2~4周行椎体后凸成 形术均能较好恢复椎体高度,且骨水泥渗漏率相似,但2周内手术的患者术后1年椎体高度丢失率较小。

关键词: 椎体后凸成形术 骨质疏松性骨折 骨折,压缩性

Abstract: Objective To compare the vertebral height and bone cement leakage of osteoporotic vertebral compression fracture treated within 2 weeks (time from injury to surgery was less than 14 days) and in 2 to 4 weeks (time from injury to surgery was between 14 and 28 days) by kyphoplasty. Methods Retrospectively analyzed the data of 48 patients with osteoporotic vertebral compression fracture treated by kyphoplasty from January 2010 to January 2011. According to the time from injury to surgery, patients were divided into two groups (surgery within 2 weeks and surgery between 2 and 4 weeks). Twenty?two patients were in surgery within 2 weeks group: 4 males and 18 females; aged from 54 to 85 years, with an average age of 71.17 years; fractured segments were distributed between T_7 and L_4 . Twenty?six patients were in surgery between 2 and 4 weeks group: 5 males and 21 females; aged from 56 to 88 years, with an average age of 73.12 years; fractured segments were distributed between T_7 and L_4 . Patients' gender, age, bone mineral density, preoperative vertebral body compression rate, intraoperative injection of bone cement volume, postoperative vertebral height restoration rate, 1?year follow?up postoperative vertebral height recollapse rate, and bone cement leakage rate were recorded and compared, respectively. Results Preoperative vertebral body compression rate, intraoperative injection of bone cement volume, T?score of BMD, and postoperative vertebral height restoration rate were $47\% \pm 21\%$ and $48\% \pm 19\%$, (3.69 ± 1.03) ml and (3.66 ± 0.71) ml, -2.79 ± 0.57 and -2.87 ± 0.95 . $25\%\pm8.3\%$ and $23\%\pm7.7\%$ in the surgery within 2 weeks group and surgery between 2 and 4 weeks group respectively. There was no significant difference in 4 indicators mentioned above between two groups. The 1?year follow?up postoperative vertebral height recollapse rates were $9\%\pm2.8\%$ (surgery within 2 weeks) and $11\%\pm2.9\%$ (surgery between 2 and 4 weeks), respectively. There was significant difference between two groups. Bone cement leakage rates were 22.2%(6/27) in surgery within 2 weeks

group and 11.8% (4/34) in surgery between 2 and 4 weeks group. There was no significant difference between two

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groups. Conclusion Surgery within 2 weeks and surgery between 2 and 4 weeks can significantly achieve vertebral height restoration, and bone cement leakage rates were similar between two groups, while 1?year follow?up postoperative vertebral height recollapse rate was higher than that in the surgery between 2 and 4 weeks group

Key words: Kyphoplasty Osteoporotic fractures Fractures, compression

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通讯作者: 唐海, E?mail: tanghai@medmail.com.cn

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- [1] Taylor RS, Fritzell P, Taylor RJ. Balloon kyphoplasty in the management of vertebral compression fractures: an updated systematic review meta?analysis[J]. Eur Spine J, 2007, 16(8): 1085?1100
- [2] 徐宝山, 唐天驷. 椎体成形术的现状与发展方向[J]. 中华骨科 杂志, 2001, 21(8): 502?504
- [3] McGirt MJ, Parker SL, Wolinsky JP, et al. Vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures: an evider based review of the literature[J]. Spine J, 2009, 9(6): 501?508
- [4] 周毅, 海涌, 苏庆军, 等. 影响椎体后凸成形术椎体高度恢复的 相关因素及临床意义[J]. 中国骨与关节外科, 2011, 4(4): 288?293
- [5] Phillips FM, Ho E, Campbell?Hupp M, et al. Early radiographic and clinical results of balloon kyphoplasty for the treatment of osteoporotic vertebral compression fractures[J]. Spine (Phila Pa 1976), 2003, 28(19): 2260?2267
- [6] Guan H, Yang H, Mei X, et al. Early or delayed operation, which is more optimal for kyphoplasty? A retrospective study on cement leakaç during kyphoplasty[J]. Injury, 2012, 43(10): 1698?1703
- [7] Jensen MP, Karoly P, Braver S. The measurement of clinical pain intensity: a comparison of six methods[J]. Pain, 1986, 27(1): 117?126
- [8] Fairbank JC, Couper J, Davies JB, et al. The Oswestry low back pain disability questionnaire[J]. Physiotherapy, 1980, 66(8): 271?273
- [9] Chen YJ, Chen WH, Chen HT, et al. Repeat needle insertion in vertebroplasty to prevent re?collapse of the treated vertebrae[J]. Eur J Ra 2012, 81(3): 558?561
- [10] Kishikawa Y. Initial non?weight?bearing therapy is important for preventing vertebral body collapse in elderly patients with clinical verteb fractures[J]. Int J Gen Med, 2012, 5: 373?380
- [1] 龚遂良,陈宝,范顺武,赵凤东. 椎体内裂隙样变对经皮椎体后凸成形术疗效的影响[J]. 中华骨科杂志, 2014, 34(1): 6-12.
- [2] 马雷,王辉,丁文元,杨大龙,张迪,孙亚澎,张为,申勇. 骨质疏松性椎体压缩骨折在退变性脊柱侧凸的分布及危险因素[J]. 中华骨科杂志, 2014, 34(1): 19-23.
- [3] 陈宝,陈国俊,龚遂良,黄成龙,范顺武. 降钙素在老年不稳定型股骨转子间骨折应用[J]. 中华骨科杂志, 2014, 34(1): 24-28.
- [4] 纪泉,赵立连,石磊,张良,王林,文良元,薛庆云. 唑来膦酸对骨质疏松性股骨转子间骨折作用效果分析[J]. 中华骨科杂志, 2014, 34(1): 29-32.
- [5] 陈红卫,张根福,潘俊,赵钢生,俞光荣. 改良前外侧入路胫骨近端锁定加压钢板固定治疗胫骨平台后外侧骨折[J]. 中华骨科杂志, 2013, 33(9): 935-940.
- [6] 庄岩,刘清华,陶凯,付亚辉,张堃,季文婷,王谦,贺宝荣,王鹏飞. 髋臼后柱解剖形态的三维重建模型研究[J]. 中华骨科杂志, 2013, 33(9): 948-953.
- [7] 王淑丽,马信龙,徐卫国,潘涛,张晓光,崔壮. 外踝骨折后三角韧带损伤程度的X线与MRI比较研究[J]. 中华骨科杂志, 2013, 33(8): 834-841.
- [8] 李晖,李清,杨风顺,侯波,郑永发,冯世庆. 多模式镇痛对老年髋部骨折术后谵妄影响的研究[J]. 中华骨科杂志, 2013, 33(7): 736-740.
- [9] 苏云山,任栋,王鹏程. 脊柱Denis B型骨折行单节段与双节段融合后生物力学强度比较[J]. 中华骨科杂志, 2013, 33(7): 748-754.