

# 中国骨伤®

ZHONGGUO GUSHANG

月刊 1987年创刊 第36卷 第11期 2023年11月25日出版

## 主管

国家中医药管理局

## 主办

中国中西医结合学会  
中国中医科学院

## 编辑

中国骨伤杂志编辑委员会  
100700,北京市东直门内南小街甲16号  
电话:(010)64089487  
传真:(010)64089792  
http://www.zggszz.com  
E-mail:zggszz@sina.com

## 主编 朱立国

## 执行主编 李为农

## 编辑部副主任 连智华

## 出版

《中国骨伤》杂志社  
100700,北京市东直门内南小街甲16号  
电话:(010)64089489  
传真:(010)64089792  
E-mail:zggszz@sina.com

## 广告发布登记号

京东工商广登字 20180004 号

## 印刷

北京汇林印务有限公司

## 发行

国内:中国邮政集团公司  
北京市报刊发行局  
海外:中国国际图书贸易集团  
有限公司  
(北京 399 信箱,100044)  
代号 M587

## 订购

全国各地邮局  
邮发代号 82-393

## 邮购

《中国骨伤》杂志社  
100700,北京市东直门内南小街甲16号

## 国内定价

每期 40.00 元,全年 480.00 元

## 中国标准连续出版物号

ISSN 1003-0034  
CN 11-2483/R

## 版权归《中国骨伤》杂志社所有

本刊刊出的所有文章不代表本刊编委会  
的观点,除非特别声明

## 目次

### 述评

- 浅谈人工髋关节置换中的热点问题 ..... 1011  
石柳,王宸

### 髋置换

- 直接上方入路与后外侧入路在髋股骨颈骨折半髋置换术中的  
早期疗效比较 ..... 1021  
彭祥,双峰,李浩,邵银初,胡炜,单记春,杨迪,万得恩,许文波  
生物型全髋置换治疗股骨转子间骨折髓内钉固定术后创伤性  
关节炎的中期疗效 ..... 1026  
田观明,李沛,毕大卫  
SuperCap 入路和直接前入路全髋关节置换术的早期临床疗效比较  
..... 1030  
常文举,丁海,刘奋斗,李想,周新社,裴立家,刘扬,王志岩  
全髋关节置换术后假体周围发生骨折的列线图预测模型构建和评估  
..... 1036  
李欣,雷孝勇,康大为  
地舒单抗对绝经后骨质疏松性股骨颈骨折全髋关节置换术后  
股骨近端假体周围骨密度的影响  
..... 1041  
宁伟宏,徐国柱,王建伟

### 临床研究

- C 形臂 X 线定位下多次小直径钻孔联合体外冲击波疗法治疗早期  
股骨头坏死的疗效观察 ..... 1014  
刘海军,王前源,牛存良,汪庚申,黄国源  
超声引导下连续髂筋膜间隙阻滞用于老年髋部骨折患者围术期  
镇痛的研究 ..... 1046  
李春秀,葛文超,杨康宁,征华勇,王晓伟,王晔来,高杰,郭文治  
关节腔积液中沉默信息调节因子 2 相关酶 1 和肿瘤坏死因子样  
弱凋亡诱导因子表达与膝骨关节炎的相关性分析  
..... 1052  
王倩,毕龙,马捷  
儿童 S<sub>2</sub> 髂骨螺钉置钉可行性分析及钉道规划  
..... 1058  
江春宇,娄桢祺,汤文瑞,黄志海,卢厚微,蒋毅

健康青年人的膝关节软骨厚度 3.0 T MRI 的定量研究 .....	1065
李阳,唐金烁,周忠圣,王晨宇,彭亚臣,左建林	
Delta 大通道内镜下经皮单侧椎板间入路 270° 环形椎管减压治疗老年腰椎管狭窄症 .....	1070
王贺辉,夏冬冬,吴小川,胡佰文	
血清基质金属蛋白酶-1 与基质金属蛋白酶-2 水平与下肢骨折手术患者术后下肢深静脉血栓形成的相关性分析 .....	1085
王春宇,张建利,陈志刚	
髓内钉固定与微创经皮钢板内固定对胫腓骨骨折患者血小板活化及血清转化生长因子- $\beta$ 1 和骨形态发生蛋白-2 影响的比较 .....	1110
温成,王希杰,韩俊成,王汉伟	
<b>基础研究</b>	
miR-143 调控基质金属蛋白酶-13 表达对骨肉瘤细胞迁移及侵袭的影响 .....	1075
李斌,李战鹏,连振刚	
基于转录组学探讨海桐皮方提取膏外用治疗膝骨关节炎的作用机制 .....	1091
夏迪,谷金玉,李法杰,苏超,张清	
<b>经验交流</b>	
高频超声对肘部囊肿的诊断价值与介入治疗研究 .....	1080
吴启兵,施晓琳,鄂占森,舒红,张昊,范义	
<b>病例报告</b>	
中医正骨手法联合神经肌肉关节促进法技术促进腰椎间盘突出症髓核回纳 1 例 .....	1097
于潼,孙黎,张智海,韩菲,王磊磊,李玉彬,张振南	
<b>综述</b>	
功能学对线机器人辅助膝关节置换术研究进展 .....	1106
杨永泽 程晴灏 张安任 邱怡 郭洪章	
<b>广告及消息</b>	
珠海昆明积大制药股份有限公司广告 .....	封二
腰痛宁胶囊(颈复康药业)广告 .....	封三

本刊稿约见本卷第 1 期封三

本期责任编辑:王玉蔓

---

---

# CHINA JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY

Monthly Established in 1987 Volume 36, Number 11 November 25, 2023

---

## Responsible Institution

State Administration of  
Traditional Chinese Medicine

## Sponsor

Chinese Association of Integrative  
Medicine;  
China Academy of Chinese Medical  
Sciences  
No.16 Nanxiaojie Dongzhimennei,  
Beijing 100700, China

## Editing

Editorial Board of China Journal of  
Orthopaedics and Traumatology

## Editor-in-Chief

ZHU Li-guo(朱立国)

## Executive Editor

LI Wei-nong(李为农)

## Assistant Director

LIAN Zhi-hua(连智华)

## Publishing

Publishing House, China Journal of  
Orthopaedics and Traumatology  
No.16A Nanxiaojie Dongzhimennei,  
Beijing 100700, China  
Tel(Fax):0086-10-64089792  
E-mail:zggszz@sina.com

## Printing

Beijing Huilin Printing Co., Ltd

## Overseas Distributor

China International Book Trading  
Corporation  
P.O.Box 399, Beijing, China  
Code No.M587

## Mail-order

Publishing House, China Journal of  
Orthopaedics and Traumatology  
No.16A Nanxiaojie Dongzhimennei,  
Beijing 100700, China  
Tel(Fax):0086-10-64089792  
E-mail:zggszz@sina.com

## CSSN

ISSN 1003-0034

CN 11-2483/R

## Copyright© 2023 by the China Journal of Orthopaedics and Traumatology Press

All articles published represent the opinions of the authors, do not represent official policy of the Editorial Board, unless this is clearly specified

## CONTENTS IN BRIEF

### Forum of specialist

- A brief commentary on the hot topics in artificial hip replacement**  
..... 1011  
*SHI Liu, WANG Chen*

### Hip arthroplasty

- Comparison of early clinical effects between direct superior approach and posterolateral approach in hemiarthroplasty of femoral neck fracture in the elderly\*** ..... 1021  
*PENG Xiang, SHUANG Feng, LI Hao, SHAO Yin-chu, HU Wei, SHAN Ji-chun, YANG Di, WAN De-en, XU Wen-bo*
- Medium term follow up outcomes of uncemented total hip arthroplasty for traumatic arthritis after intramedullary nail fixation of femoral intertrochanteric fracture\*** ..... 1026  
*TIAN Guan-ming, LI Pei, BI Da-wei*
- Comparison of early clinical outcomes between SuperCap and direct anterior approaches for total hip arthroplasty\*** ..... 1030  
*CHANG Wen-ju, DING Hai, ZHOU Xin-she, PEI Li-jia, LIU Yang, WANG Zhi-yan*
- Construction and evaluation of a nomogram prediction model for periprosthetic fractures after total hip arthroplasty\*** ..... 1036  
*LI Xin, LEI Xiao-yong, KANG Da-wei*
- Effects of denosumab on bone mineral density around proximal femoral prosthesis after total hip replacement in postmenopausal osteoporotic patients\***  
..... 1041  
*NING Wei-hong, XU Guo-zhu, WANG Jian-wei*

### Clinical study

- Clinical application study of multiple small-diameter drilling combined with extracorporeal shock wave therapy (ESWT) under C-arm positioning in the treatment of early femoral head necrosis\***  
..... 1014  
*LIU Hai-jun, WANG Qian-yuan, NIU Cun-liang, WANG Geng-shen, HUANG Guo-yuan*
- Ultrasound-guided continuous fascia iliaca compartment block for perioperative pain management in elderly patients undergoing hip fracture surgery\***  
..... 1046  
*LI Chun-xiu, GE Wen-chao, YANG Kang-ning, ZHENG Hua-yong, WANG Xiao-wei, WANG Ye-lai, GAO Jie, GUO Wen-zhi*
- Correlation of expression of silencing information regulator 2 related enzyme 1 and tumor necrosis factor-like weak inducer of apoptosis in articular effusion and knee arthritis\*** ..... 1052  
*WANG Qian, BI Long, MA Jie*

**Feasibility analysis and nail planning of S<sub>2</sub> iliac crest screw placement in children\*** ..... 1058

*JIANG Chun-yu, LOU Zhen-qi, TANG Wen-rui, HUANG Zhi-hai, LU Hou-wei, JIANG Yi*

**Quantitative study of 3.0 T MRI on the thickness of knee joint cartilage in healthy young people\*** ..... 1065

*LI Yang, TANG Jin-shuo, ZHOU Zhong-sheng, WANG Chen-yu, PENG Ya-chen, ZUO Jian-lin*

**Unilateral interlaminar approach 270° circular spinal canal decompression under the iLESSYS Delta for the treatment of lumbar spinal stenosis in the elderly\*** ..... 1070

*WANG He-hui, XIA Dong-dong, WU Xiao-chuan, HU Bai-wen*

**Correlation analysis of serum MMP-1 and MMP-2 levels with lower extremity deep venous thrombosis after operation for lower limb fracture\*** ..... 1085

*WANG Chun-yu, ZHANG Jian-li, CHEN Zhi-gang*

**Comparative study of the effects of intramedullary nail fixation and minimally invasive percutaneous plate internal fixation technique on platelet activation and serum transforming growth factor-β1 (TGF-β) 1 and bone morphogenetic protein-2 (BMP-2) in patients with tibial and fibular fracture\*** ..... 1110

*WEN Cheng, WANG Xi-jie, HAN Jun-cheng, WANG Han-wei*

## Experimental research

**Effects of miR-143 on the migration and invasion of osteosarcoma cells by regulating MMP-13 expression\*** ..... 1075

*LI Bin, LI Zhan-peng, LIAN Zhen-gang*

**Study on the mechanism of haitongpi prescription extract ointment in the treatment of knee osteoarthritis based on transcriptome\*** ..... 1091

*XIA Di, GU Jin-yu, LI Fa-jie, SU Chao, ZHANG Qing*

## Empirical communication

**Diagnostic value and interventional treatment of elbow cyst by high frequency ultrasound\*** ..... 1080

*WU Qi-bing, SHI Xiao-lin, E Zhan-sen, SHU Hong, ZHANG Hao, FAN Yi*

## Case report

**Treatment of lumbar disc herniation with traditional Chinese medicine combined with neuromuscular joint facilitation manipulation: a case report** ..... 1097

*YU Tong, SUN Li, ZHANG Zhi-hai, HAN Fei, WANG Lei-lei, LI Yu-bin, ZHANG Zhen-nan*

## Review

**Research progress of functional alignment robot assisted knee replacement\*** ..... 1106

*YANG Yang-ze, CHENG Qing-hao, ZHANG An-ren, QIU Yi, GUO Hong-zhang*

---

\*With English abstract