

# 中国骨伤<sup>®</sup>

ZHONGGUO GUSHANG

月刊 1987 年创刊 第 36 卷 第 6 期 2023 年 6 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

- 微创手术治疗膝骨关节炎 ..... 499  
邢鹏飞,曲俊松,黄涛

膝骨关节炎

- 关节镜手术治疗对早期膝骨关节炎的中期临床疗效 ..... 502  
杨顺杰,王令成,杨硕瑶,薛扬,游茗柯,陈刚

- 混合型单髁与全膝关节置换治疗膝内侧间室骨关节炎的疗效比较 ..... 507  
许庆志,庄至坤,龚志兵,吴荣凯,徐福东

- 膝骨关节炎患者巨噬细胞趋化力与疾病严重程度的相关性 ..... 514

- 解志波、陈科明、黄从伍、陈林清、欧阳凯、彭庆星  
重度膝骨关节炎与骨髓水肿相关性研究 ..... 525  
肖龙文,桑志成

临床研究

- 椎间盘疝入胸腰段骨折椎体导致骨折畸形愈合及椎间隙高度下降 ..... 532  
谢浩,吴积,覃健,刘军,曹晓建

- 喙锁韧带不同重建方法治疗肩锁关节脱位的有限元分析 ..... 543  
陈浩,方加虎,殷国勇

- 高分辨率超声检测尺神经直径在肘管综合征中的应用 ..... 550  
张光辉,张志,张清林,韩明通,张磊

- 腰椎棘突偏斜与年轻患者腰椎间盘突出的相关性研究 ..... 554  
陈志杰,陈春美,毕中胜,刘姐,林涛,鲁明,王锐

基础研究

- 推拿按揉环跳穴对坐骨神经痛大鼠脊髓背角 NF-κB p65 蛋白的干预作用 ..... 519  
黄华枝,吕立江,刘祯,吕智桢,黄玉波,吴虹娇,高祥福

长链非编码 RNA DLEU1 在骨肉瘤中的预后价值分析及机制研究	559
张晶晶,杨平,尚晓强	

## 循证医学

自体骨软骨马赛克移植成形术后膝关节供区部位发病率的系统评价	579
宋文杰,梁浩然,牛文杰,刘洋,任智远,王薛丁,段王平	

## 经验交流

掌指关节处带指动脉神经的 V-Y 成形皮瓣修复中远节指腹缺损	564
胡继超,何建,陈俊波,步开东	
关节镜监视下辅助治疗胫骨平台骨折的新型复位器的研制和临床应用	570
黄兴锐,蒋元斌,杨崇山,徐浩,方姝晨,陈小微,陈程,李豪	
微型针板内固定治疗 10 例 C 型桡骨极远端骨折的疗效分析	574
刘兵,马翔宇,杨超,周大鹏	

## 病例报告

踝前小切口踝关节融合术治疗踝关节血友病性关节炎 1 例	586
刘凡,程士欢,张德宝,李伟,谷贵山	
医源性髂外动脉损伤致髋关节离断 1 例	589
厚兆军	

## 综述

光学运动捕捉技术在肩关节生物力学中的研究进展	591
张柏荣,刘涛,张明涛,杨智涛,梁钧文,王锡豪,张成俊,韵向东	

## 广告及消息

珠海昆明积大制药股份有限公司广告	封二
防治艾滋病国家有政策	前插五

本刊稿约见本卷第 1 期封三

本期责任编辑:连智华 朱嘉

# CHINA JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY

Monthly Established in 1987 Volume 36 , Number 6 June 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

LIA N 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 : zggsszz@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 : zggsszz@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

- Minimally invasive surgery for knee osteoarthritis ..... 499  
*XING Peng-fei, QU Jun-song, HUANG Tao*

### Knee osteoarthritis

- Mid-term clinical outcomes of arthroscopic surgery on early knee osteoarthritis in  
middle-old aged patients\* ..... 502  
*YANG Shun-jie, WANG Ling-cheng, YANG Shuo-yao, XUE Yang, YOU Ming-ke,  
CHEN Gang*
- Comparison of outcomes of mixed unicompartmental knee arthroplasty and total  
knee arthroplasty in the treatment of medial osteoarthritis of the knee\* ..... 507  
*XU Zhi-qing, ZHUANG Zhi-kun, GONG Zhi-bing, WU Rong-kai, XU Fu-dong*
- Correlation between macrophage chemotaxis and disease severity in patients with  
knee osteoarthritis\* ..... 514  
*XIE Zhi-bo, CHEN Ke-ming, HUANG Cong-wu, CHEN Lin-qing, OU Yang-kai,  
PENG Qing-xing*
- Study on the relationship between severe knee osteoarthritis and bone marrow  
edema\* ..... 525  
*XIAO Long-wen, SANG Zhi-cheng*

### Clinical study

- Herniation of intervertebral disc into thoracolumbar fracture vertebral body  
leads to malunion of fracture and decrease of intervertebral space height \* ..... 532  
*XIE Hao, WU Ji, QIN Jian, LIU Jun, CAO Xiao-jian*
- Finite element analysis of different reconstruction methods of coracoclavicular  
ligament for acromioclavicular joint dislocation\* ..... 543  
*CHEN Hao, FANG Jia-hu, YIN Guo-yong*
- Application of ulnar nerve diameter changes examined by HRUS in patients with  
cubital tunnel syndrome\* ..... 550  
*ZHANG Guang-hui, ZHANG Zhi, ZHANG Qing-lin, HAN Ming-tong, ZHANG Lei*
- Correlation between spinous process deviation and lumbar disc herniation in  
young patients\* ..... 554  
*CHEN Zhi-jie, CHEN Chun-me, BI Zhong-sheng, LIU Da, LIN Tao, LU Ming,  
WANG Rui*

## **Experiment research**

<b>Intervention effect of tuina pressing and kneading the Huantiao acupoint on NF-<math>\kappa</math>B p65 protein at spinal cord dorsal horn in sciatica rats*</b> .....	519
<i>HUANG Hua-zhi, LYU Li-jiang, LIU Zhen, LYU Zhi-zhen, HUANG Yu-bo, WU Hong-jiao, GAO Xiang-fu</i>	
<b>Prognostic value and mechanism of long non-coding RNA DLEU1 in osteosarcoma*</b> .....	559
<i>ZHANG Jing-jing, YANG Ping, SHANG Xiao-qiang</i>	

## **Evidence-bace medicine**

<b>Systematic evaluation of the incidence of the knee donor area after autologous cartilage mosaicplasty*</b> .....	579
<i>SONG Wen-jie, LIANG Hao-ran, NIU Wen-jie, LIU Yang, REN Zhi-yuan, WANG Xue-ding, DUAN Wang-ping</i>	

## **Empirical communication**

<b>A V-Y shaped flap with digital artery nerve at metacarpophalangeal joint was used to repair the defect of middle and distal phalanx*</b> .....	564
<i>HU Ji-chao, HE Jian, CHEN Jun-bo, BU Kai-dong</i>	
<b>Development and clinical application of a new reduction device for the treatment of tibial plateau fracture under arthroscopic monitoring*</b> .....	570
<i>HUANG Xing-rui, JIANG Yuan-bin, YANG Chong-shan, XU Hao, FANG Shu-chen, CHEN Xiao-wei, CHEN Cheng, LI Hao</i>	
<b>The analysis of the therapeutic effect for 10 cases of type C extreme distal radial fracture in micro needle plate internal fixation*</b> .....	574
<i>LIU Bing, MA Xiang-yu, YANG Chao, ZHOU Da-peng</i>	

## **Case report**

<b>Treatment of hemophilic arthropathy of ankle by arthrodesis with a small anterior approach:a case report</b> .....	586
<i>LIU Fan, CHENG Shi-huan, ZHANG De-bao, LI Wei, GU Gui-shan</i>	
<b>Disarticulation of hip joint caused by iatrogenic injury of external iliac artery:a case report</b> .....	589
<i>HOU Zhao-jun</i>	

## **Review**

<b>Research progress of optical motion capture technology in shoulder biomechanics*</b> .....	591
<i>ZHANG Bai-rong, LIU Tao, ZHANG Ming-tao, YANG Zhi-tao, LIANG Jun-wen, WANG Xi-hao, ZHANG Cheng-jun, YUN Xiang-dong</i>	

\*With English abstract