

# 中国骨伤®

ZHONGGUO GUSHANG

月刊 1987年创刊 第35卷 第1期 2022年1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

### 专家述评

- 跟腱损伤诊断与治疗的研究进展 ..... 1  
万春友,张伟业,刘钊,张宁宁,王明杰

### 跟腱断裂

- 急性闭合性跟腱断裂跟腱病理改变与超微结构研究  
..... 5  
黄鑫,苏柯,柳嘉伟,姜钰,朱颖波,王晓宁,吴克俭  
改良跟腱内侧J形切口结合阔筋膜移植修复Kuwada II和III型跟腱  
缺损 ..... 11  
祁义民,杨蔚勃,蒋纯志,曾逸文,吴磊  
腓肠肌腱膜松解联合跟腱断端瘢痕组织缝合治疗陈旧性跟腱断裂  
..... 15  
郑加法,于鹤,宋秀锋

### 临床研究

- 多孔钽金属Jumbo杯在髋关节翻修术中的应用  
..... 20  
王跃辉,邹士平,陈宾,陈成亮,陈文忠  
关节镜下清理联合富血小板血浆注射治疗Kellgren-Lawrence分级  
I-III级膝骨关节炎 ..... 26  
向成浩,范成龙,章文婕,陈刚,杨朝晖,陈天午,陈文革  
中医推拿按摩对脊柱侧弯行3D打印技术矫形术患者脊椎功能康复  
效果的影响 ..... 33  
王红亚,孔雅萍  
入院时血红蛋白水平对老年髌骨骨折生存预后的影响  
..... 38  
李少华,张铁山,邢克炎,何新庄,刘涛  
计算机导航间隙平衡技术对全膝关节置换术后患者下肢恢复的影响  
..... 43  
王宸,冯利君,赵金廷  
改良Henry入路缝合旋前方肌对桡骨远端骨折功能恢复疗效比较  
..... 49  
吴斌,康正阳,魏世坤,熊廷亮  
胫骨冠状面弯曲导致全膝关节置换术后胫骨假体力线不良  
..... 54  
吴鹏,郎俊哲,吴聪聪,陈雷,何莉莉

## 基础研究

- 泛素-蛋白酶体抑制剂 MG132 上调 Wnt/ $\beta$ -catenin 信号通路改善骨质疏松的实验研究 ..... 59  
邵荣学,张亮,杨贺杰,张志敬,乐军,潘浩,周辉,全仁夫

## 循证医学

- 活动平台与固定平台单髁置换治疗内侧膝骨关节炎的 Meta 分析 ..... 67  
姜灵凯,魏垒,董政权,顾晓东,李鹏翠

## 经验交流

- 锁边悬吊联合三道钢丝垂直固定治疗髌骨下极粉碎性骨折 ..... 80  
林红明,孙斌,张恒健,梁田子,吴旭东  
骨搬移术中植入硫酸钙对促进对合端愈合的效果观察 ..... 85  
郭学德,孟红亚,王辞山,万德余,柴雷子  
改良 Chevron 截骨术治疗中重度足拇外翻 ..... 90  
余建华,方添顺,宋涛,吴猛,李雄峰

## 病例报告

- Hoffa 骨折合并同侧髌骨脱位及踝关节骨折 1 例 ..... 64  
曹雨,杜心如,乔晓光,于海峰,李少刚

## 综述

- Crowe II 和 III 型发育性髋关节发育不良髋臼重建的研究现状 ..... 75  
文兴贵,窦一鸣,沈先月,唐金烁,肖建林,高忠礼,左建林  
金属对金属髋关节置换因金属颗粒不良反应翻修的研究进展 ..... 95  
汪鑫,杨美平,刘洪亮,黄泽鑫,许树柴

- 广告目次 ..... 42

- 致谢《中国骨伤》杂志 2021 年度审稿人和受邀撰稿人 ..... I

- 稿约 ..... II

本期责任编辑:王玉蔓

# CHINA JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY

Monthly Established in 1987 Volume 35, Number 1 January 25, 2022

## 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© 2022 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

- Research progress in diagnosis and treatment of Achilles tendon injury**  
..... 1  
WAN Chun-you, ZHANG Wei-ye, LIU Zhao, ZHANG Ning-ning, WANG Ming-jie

### Achilles tendon rupture

- Pathological changes and ultrastructure of Achilles tendon in acute closed Achilles tendon rupture\*** ..... 5  
HUANG Xin, SU Ke, LIU Jia-wei, JIANG Yu, ZHU Ying-bo, WANG Xiao-ning,  
WU Ke-jian

- Repair of Kuwada II and III Achilles tendon defects through modified medial J-shaped approach with autologous fascia lata transplantation\***  
..... 11  
QI Yi-min, YANG Weng-bo, JIANG Chun-zhi, ZENG Yi-wen, WU Lei

- Release of gastrocnemius aponeurosis and suture of the Achilles tendon end scar tissue managing the chronic Achilles tendon rupture\***  
..... 15  
ZHENG Jia-fa, YU He, SONG Xiu-feng

### Clinical study

- Application of porous tantalum Jumbo cup in revision of hip arthroplasty\***  
..... 20  
WANG Yue-hui, ZOU Shi-ping, CHEN Bin, CHEN Cheng-liang, CHEN Wen-zhong

- Arthroscopic debridement combined with platelet-rich plasma injection for the treatment of Kellgren-Lawrence grade I-III knee osteoarthritis\***  
..... 26  
XIANG Cheng-hao, FAN Cheng-long, QIN Wen-jie, CHEN Gang, YANG Zhao-hui,  
CHEN Tian-wu, CHEN Wen-ge

- Effect of traditional Chinese medicine massage on the rehabilitation of spinal function in scoliosis patients undergoing 3D printing orthopedic surgery\***  
..... 33  
WANG Hong-ya, KONG Ya-ping

- Influence of hemoglobin level (Hb) on survival and prognosis of elderly hip fracture at admission\*** ..... 38  
LI Shao-hua, ZHANG Tie-shan, XING Ke-yan, HE Xin-zhuang, LIU Tao

- Effect of computer navigation gap balance technology on lower limb recovery after total knee arthroplasty\*** ..... 43  
WANG Chen, FENG Li-jun, ZHAO Jin-ting

- Comparison of functional recovery of distal radius fracture by suture of pronator muscle through modified Henry approach\***  
..... 49  
WU Bin, KANG Zheng-yang, WEI Shi-kun, XIONG Ting-liang

<b>Coronal curvature of tibial leads to malalignment of tibial prosthesis after total knee arthroplasty*</b>	54
.....	
<i>WU Peng, LANG Jun-zhe, WU Cong-cong, CHEN Lei, HE Li-li</i>	

## Experiment research

<b>Experimental study of proteasome inhibitor MG132 up-regulates Wnt/<math>\beta</math>-catenin signaling pathway to improve osteoporosis*</b>	59
.....	
<i>SHAO Rong-xue, ZHANG Liang, YANG He-jie, ZHANG Zhi-jing, YUE Jun, PAN Hao, ZHOU Hui, QUAN Ren-fu</i>	

## Evidence based medicine

<b>Meta analysis of mobile bearing and fixed bearing unicondyle replacement for medial knee osteoarthritis*</b>	67
.....	
<i>JIANG Ling-kai, WEI Lei, DONG Zheng-quan, GU Xiao-dong, LI Peng-cui</i>	

## Empirical communication

<b>Treatment of comminuted fracture of inferior pole of patella with locking suspension and vertical fixation with three steel wires*</b>	80
.....	
<i>LIN Hong-ming, SUN Bin, ZHANG Heng-jian, LIANG Tian-zi, WU Xu-dong</i>	
<b>Effect of calcium sulfate on promoting natural healing of docking sites during bone transport*</b>	85
.....	
<i>GUO Xue-de, MENG Hong-ya, WANG Ci-shan, WAN De-yu, CHAI Lei-zi</i>	
<b>Modified chevron osteotomy in the treatment of moderate and severe hallux valgus*</b>	90
.....	
<i>YU Jian-hua, FANG Tian-shun, SONG Tao, WU Meng, LI Xiong-feng</i>	

## Case report

<b>Hoffa fracture combined with ipsilateral patellar dislocation and ankle fracture: a case report</b>	64
.....	
<i>CAO Yu, DU Xin-ru, QIAO Xiao-guang, YU Hai-feng, LI Shao-gang</i>	

## Review

<b>Research status of acetabular reconstruction in Crowe type II and III developmental dysplasia of the hip*</b>	75
.....	
<i>WEN Xing-gui, DOU Yi-ming, SHEN Xian-yue, TANG Jin-shuo, XIAO Jian-lin, GAO Zhong-li, ZUO Jian-lin</i>	
<b>Research progress on the revision of Metal-on-Metal hip arthroplasty due to adverse reactions to metal debris*</b>	95
.....	
<i>WANG Xin, YANG Mei-ping, LIU Hong-liang, HUANG Ze-xin, XU Shu-chai</i>	

---

\*With English abstract