

# 中国骨伤<sup>®</sup>

ZHONGGUO GUSHANG

月刊 1987 年创刊 第 37 卷 第 5 期 2024 年 5 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 56.00 元, 全年 672.00 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

- 老年骨盆脆性骨折治疗方法的选择与思考 ..... 435  
姜钰, 张立海

骨盆骨折

- 术中滑轨 CT 辅助在经皮骶髂关节螺钉治疗骨盆后环损伤中的应用 ..... 438  
盛斌, 王奕威, 王愉思, 刘德龙, 杨瞻宇, 关蕊, 刘超  
骨科机器人联合 Strr 骨盆复位架治疗 Tile C 型骨盆环骨折 ..... 445  
姜刚强, 焦福德, 应霖翀, 虞天明, 刘建磊, 庄云强  
抗生素骨水泥被覆重建钢板治疗感染性骨盆前环骨折 ..... 451  
厉孟, 王克竟, 高振洋, 谢云飞, 郭涛

临床研究

- 股骨颈动力交叉螺钉系统与螺纹空心钉治疗垂直不稳定股骨颈骨折  
短期随访 ..... 458  
王强, 吕欣, 李兴业, 刘晋元  
金属垫块结合 Jumbo 白杯在人工髋关节翻修髋臼骨缺损重建中的  
应用研究 ..... 464  
李锋侦, 司文腾, 田爱利, 周宇, 陈明伟  
经皮椎弓根螺钉锚定式椎体强化术治疗无神经症状 Kümmell 病 ..... 470  
陈松海, 叶林强, 周泽霖, 卢国樑  
非移位型股骨颈骨折发生股骨头后倾角的研究 ..... 476  
俞荣耀, 庞清江  
腹股沟韧带上髂筋膜阻滞联合经静脉患者自控镇痛在老年髋关节  
置换术后的应用 ..... 482  
姚富, 稲云华, 向继林, 杨波  
远端缺血预处理对髋部骨折老年患者术后 1 年心血管事件的影响 ..... 487  
张丽娜, 张艳阁, 伍永权  
髋关节置换住院期间输血的发生率及相关危险因素 ..... 492  
廖贵, 蒙玉民, 顾容赫

血清水平预测老年髋关节术后下肢深静脉血栓的价值研究	500
杨颖,尹茯颐,冷嫄娴,李国红	

## 基础研究

Crowe III型髋关节发育不良人工全髋关节置换髋臼解剖重建与非解剖重建髋关节生物力学有限元分析	505
张衡,周宇凡,李博闻,李宽新,刘扬,周建生,赵建宁	
慢性骨髓炎患者骨组织的转录组特征分析	519
张扬,刘亦杨,沈立锋,林炳远,寿旦,郭峭峰,张春	

## 病例报告

髋关节融合合并同侧重度膝关节骨关节炎全膝关节置换 1 例	515
刘恒志,胡爱心,梁杰	
经皮椎体成形术术中椎体高度丢失 1 例	527
刘正强,唐磊,陈海丹	

## 综述

前环皮下内固定治疗骨盆前环损伤的研究进展	530
崔栋清,陈斌,孙海钰	

## 广告

腰痛宁胶囊(颈复康药业)广告	封二
----------------	----

本期责任编辑:王玉蔓

# CHINA JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY

Monthly Established in 1987 Volume 37 , Number 5 May 25 , 2024

## 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: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© 2024 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

- Selection and thinking on the treatment methods for pelvic fragility fracture in the elderly ..... 435  
JIANG Yu, ZHANG Li-hai

### Pelvic fracture

- Intraoperative slide rail CT assistance in percutaneous sacroiliac joint screws for the treatment of pelvic posterior ring injury\* ..... 438  
SHENG Bin, WANG Yi-wei, WANG Yu-si, LIU De-long, YANG Zhan-yu, GUAN Rui, LIU Chao
- Treatment of Tile type C pelvic ring fracture using orthopedic robot combined with Starr pelvis reduction frame\* ..... 445  
JIANG Gang-qiang, JIAO Fu-de, YING Ji-chong, YU Tian-ming, LIU Jian-lei, ZHUANG Yun-qiang
- Antibiotic bone cement covered reconstruction plate for infected anterior pelvic ring fractures\* ..... 451  
LI Meng, WANG Ke-jing, GAO Zhen-yang, XIE Yun-fei, GUO Tao

### Clinical study

- Short term follow-up of femoral neck dynamic cross screw system and threaded cannulated screw in the treatment of vertically unstable femoral neck fractures\* ..... 458  
WANG Qiang, LYU Xin, LI Xing-ye, LIU Jin-yuan
- Application of metal cushion block combined with Jumbo cup in reconstruction of acetabular bone defect in revision of artificial hip joint\* ..... 464  
LI Feng-zhen, SI Wen-teng, TIAN Ai-li, ZHOU Yu, CHEN Ming-wei
- Percutaneous pedicle screw anchored vertebral augmentation for the treatment of Kümmell disease without neurological symptoms\* ..... 470  
CHEN Song-hai, YE Lin-Qiang, ZHOU Ze-lin, LU Guo-liang
- Clinical study on the incidence of femoral head posterior tilt angle in non-displaced femoral neck fractures\* ..... 476  
YU Rong-yao, PANG Qing-jiang
- Application of superior iliac fascia block of inguinal ligament combined with patient controlled intravenous analgesia in elderly patients after hip arthroplasty\* ..... 482  
YAO Fu, SHUI Yun-hua, XIANG Ji-lin, YANG Bo
- Effect of distal ischemic preconditioning on cardiovascular events in adult patients with hip fracture one year after operation\* ..... 487  
ZHANG Li-na, ZHANG Yan-ge, WU Yong-quan

<b>Incidence of blood transfusion and associated risk factors during hip arthroplasty hospitalization*</b>	492
<i>LIAO Gui, MENG Yu-min, GU Rong-he</i>	
<b>Value of serum levels in predicting lower extremity deep vein thrombosis after hip joint surgery in the elderly*</b>	500
<i>YANG Ying, YIN Fu-yi, LENG Yuan-xian, LI Guo-hong</i>	
<b>Experimental research</b>	
<b>Hip joint biomechanical analysis of the acetabular anatomical reconstruction and nonanatomical reconstruction in total hip arthroplasty for Crowe type III developmental dysplasia of the hip by finite element method*</b>	505
<i>ZHANG Heng, ZHOU Yu-fan, LI Bo-wen, LI Kuan-xin, LIU Yang, ZHOU Jian-sheng, ZHAO Jian-ning</i>	
<b>Transcriptomic characteristics analysis of bone from chronic osteomyelitis*</b>	519
<i>ZHANG Yang, LIU Yi-yang, SHEN Li-feng, LIN Bin-yuan, SHOU Dan, GUO Qiao-feng, ZHANG Chun</i>	
<b>Case report</b>	
<b>Treatment of hip fusion combined with equal degree knee osteoarthritis with total knee arthroplasty: a case report</b>	515
<i>LIU Heng-zhi, HUA i-xin, LIA NG Jie</i>	
<b>Percutaneous vertebroplasty intraoperative vertebral height loss: a case report</b>	527
<i>LIU Zheng-qiang, TAN G Lei, CHEN Hai-dan</i>	
<b>Review</b>	
<b>Progress of anterior subcutaneous internal fixation in the treatment of anterior pelvic ring injury*</b>	530
<i>CUI Dong-qing, CHEN Bin, SUN Hai-yu</i>	

\*With English abstract