

目 次 CONTENTS

临床论著 **Clinical Treatise**

- 后路钉棒内固定非融合治疗创伤性寰枢关节旋转脱位 成俊, 谭均, 赵耘, 等 (153)
 Posterior screw-rod internal fixation without fusion for traumatic atlantoaxial rotatory dislocation
 CHENG Jun, TAN Jun, ZHAO Yun, et al
- 经皮椎体后凸成形术治疗中上胸椎骨质疏松性椎体压缩骨折 尹思, 刘伟, 杜恒, 等 (157)
 Percutaneous kyphoplasty for the treatment of middle and upper thoracic osteoporotic vertebral compression fracture
 YIN Si, LIU Wei, DU Heng, et al
- 经皮与肌间隙入路椎弓根螺钉内固定治疗 A1 型胸腰段椎体骨折 韩明远, 贺振年, 郭剑, 等 (161)
 Treatment of type A1 thoracolumbar fracture with percutaneous and paraspinal muscle space approach pedicle screw fixation
 HAN Ming-yuan, HE Zhen-nian, GUO Jian, et al
- 开放与经皮短节段椎弓根固定治疗胸腰椎骨折的效果 伏治国, 施耀华, 陈俭波, 等 (165)
 The surgical outcome of short-segment open and percutaneous pedicle screw fixation for treatment of thoracolumbar fractures
 FU Zhi-guo, SHI Yao-hua, CHEN Jian-bo, et al
- 单侧穿刺囊袋加压椎体成形术治疗胸腰椎骨质疏松性骨折 何帮剑, 毛强, 华江, 等 (171)
 Unilateral puncture bag compression vertebroplasty in treatment of thoracolumbar osteoporotic fractures
 HE Bang-jian, MAO Qiang, HUA Jiang, et al
- 单侧与双侧入路经皮椎体后凸成形术治疗骨质疏松性椎体压缩骨折的疗效比较 史德军, 朱浩玮, 张杰彪, 等 (175)
 The efficacy of percutaneous kyphoplasty via uni-extrapedicular approach and bipedicular approach in treatment of osteoporotic
 vertebral compressive fractures SHI De-jun, ZHU Hao-wei, ZHANG Jie-biao, et al
- 经皮椎间孔镜微创手术治疗腰椎间盘突出症的疗效 郑国卿, 徐文婷, 杜亮, 等 (177)
 Efficacy of minimally invasive percutaneous transforaminal endoscopic discectomy for lumbar disc herniation
 ZHENG Guo-qing, XU Wen-ting, DU Liang, et al
- 单纯斜外侧椎间融合术在腰椎退行性疾病中的应用 宋国浩, 张建乔, 曾忠友 (180)
 Application of simple oblique lateral intervertebral fusion in lumbar degenerative diseases
 SONG Guo-hao, ZHANG Jian-qiao, ZENG Zhong-you
- 神经根沉降征在退行性腰椎椎管狭窄治疗中的评估价值 赵李奔, 孙笛, 高晓荣 (183)
 Evaluation value of nerve root sedimentation sign in the treatment of degenerative lumbar spinal stenosis
 ZHAO Li-ben, SUN Di, GAO Xiao-rong
- 两种术式治疗 3 节段退变性腰椎管狭窄症早期疗效比较 李赛, 张凯, 朱文辉, 等 (187)
 Comparison of the early efficacy of two surgery methods in the treatment of three-level degenerative lumbar spinal stenosis
 LI Sai, ZHANG Kai, ZHU Wen-hui, et al
- 核心肌群训练对不完全性脊髓损伤患者站立能力的疗效 陈剑飞, 徐献民, 曹坤茂, 等 (191)
 Efficacy of core muscle group training on standing ability of patients with incomplete spinal cord injury
 CHEN Jian-fei, XU Xian-min, CAO Kun-mao, et al
- 血清 25-羟 - 维生素 D 对脊柱结核患者手术疗效的影响 方海林, 彭茂轩, 高腾飞, 等 (195)
 The effect of serum 25 hydroxy vitamin D level on surgical treatment efficacy of spinal tuberculosis
 FANG Hai-lin, PENG Mao-xuan, GAO Teng-fei, et al
- 侧卧位直接前方入路全髋关节置换的可行性和效果 胡林涛, 陈敏, 罗正亮, 等 (200)
 The feasibility and clinical effect of direct anterior approach for total hip arthroplasty in the lateral decubitus position
 HU Lin-tao, CHEN Min, LUO Zheng-liang, et al
- 微创锚钉治疗陈旧踝关节外侧副韧带损伤 李林宏, 鲁保权, 张勇春, 等 (204)
 Minimally invasive anchor for treatment of the old lateral collateral ligament injury of ankle joint
 LI Lin-hong, LU Bao-quan, ZHANG Yong-chun, et al
- 内置负压吸引治疗大面积皮肤脱套伤的疗效 王林, 李刚, 苗雨, 等 (207)
 Effect of built-in negative pressure suction in the treatment of large area skin avulsion injury
 WANG Lin, LI Gang, MIAO Yu, et al
- 逆行岛状腓动脉穿支皮瓣修复足后跟部软组织缺损 陈闯昌, 杨国峰, 朱红夷, 等 (210)
 The reverse island peroneal artery perforation flap for repairing soft tissue defect in heel
 CHEN Min-chang, YANG Guo-feng, ZHU Hong-yi, et al

纳布啡联合舒芬太尼用于老年单侧全髋关节置换术后静脉自控镇痛的效果 朱联周(213)
 The efficacy of nalbuphine combined with sufentanil for patient-controlled intravenous analgesia after unilateral total hip arthroplasty in the elderly patients ZHU Lian-zhou

应用 MRI 研究创伤后骨筋膜室压力与骨骼肌纤维化修复的关系 田生杰,张世民,朱建华,等(217)
 Application of MRI in the study of intracompartmental pressure and skeletal muscle fibrosis after trauma TIAN Sheng-jie,ZHANG Shi-min,ZHU Jian-hua,et al

解剖锁定钢板联合锚钉治疗 Neer II b 型锁骨远端粉碎骨折 汤红伟,殷勇,李云飞,等(223)
 Anatomical locking plate combined with suture anchor in the treatment of Neer type II b distal clavicle comminuted fractures TANG Hong-wei, YIN Yong, LI Yun-fei,et al

肱骨大结节足印区骨床新鲜化对肩袖撕裂早期疗效的影响 陈光,陶训勋,殷浩,等(226)
 The influence of early clinical effect of refresh treatment of bone bed in footprint area of the greater tubercle of humerus on rotator cuff tear CHEN Guang,TAO Xun-xun,YIN Hao,et al

内侧柱植骨结合 PHILOS 钢板治疗老年肱骨近端内收型骨折 顾霄鹏,陆欢,翁宏军,等(230)
 The medial column bone graft combined with PHILOS plate in the treatment of proximal humeral adductive fracture in the elderly GU Xiao-peng,LU Huan,WENG Hong-jun,et al

外固定架辅助下微创经皮钢板内固定治疗肱骨干骨折 吴松柏,谭伦,钟永平,等(233)
 Treatment of humeral shaft fracture with minimally invasive percutaneous plate osteosynthesis assisted by external fixator WU Song-bai,TAN Lun,ZHONG Yong-ping,et al

双钢板治疗肱骨干骨折的疗效 项辉,曹溢(236)
 The effect of dual-plate in treatment of humeral shaft fractures XIANG Hui, CAO Yi

超声在儿童尺桡骨骨折闭合复位弹性髓内钉固定术中的应用 陈跃跃,江红艳,刘守正(238)
 Application of ultrasound in closed reduction and elastic intramedullary nail fixation for children with ulna and radius fractures CHEN Yue-yue, JIANG Hong-yan,LIU Shou-zheng

应用微创接骨板固定技术治疗骨盆骨折 夏联义,黄晖(241)
 The application of minimally invasive plate osteosynthesis technique in the treatment of pelvic fractures XIA Lian-yi,HUANG Hui

空心钉与空心钉钢板内固定治疗股骨颈骨折疗效比较 汪培涛,丁少成,曹家俊,等(244)
 Curative effects comparison of cannulated screw and cannulated screw with plate in the treatment of femoral neck fracture WANG Pei-tao,DING Shao-cheng,CAO Jia-jun,et al

股骨近端防旋髓内钉治疗≥90 岁股骨转子间骨折患者的疗效 鲁成,陈德旗,刘光旺(248)
 The effect of proximal femoral nail antirotation in treatment of intertrochanteric fractures in patients 90 years old and above LU Cheng, CHEN De-qi,LIU Guang-wang

重建钢板辅助股骨近端髓内钉内固定治疗股骨转子下骨折 宋锦程,王黎明,沙卫平,等(253)
 Reconstruction plate assisted proximal femoral intramedullary nailing for the subtrochanteric fracture of femur SONG Jin-cheng,WANG Li-ming,SHA Wei-ping,et al

闭合复位顺行髓内钉固定治疗股骨干骨折 王栋,章小军(256)
 Closed reduction and antegrade interlocking intramedullary nail fixation for surgical treatment of femoral shaft fracture WANG Dong, ZHANG Xiao-jun

克氏针钢丝与髌骨针钛缆两种张力带固定治疗髌骨骨折 王春,沈新乐,陶初华,等(259)
 Two kinds of tension band with Kirschner wire-steel wire fixation and patellar needle-titanium cable fixation in the treatment of patellar fracture WANG Chun,SHEN Xin-le,TAO Chu-hua,et al

全膝关节置换术治疗膝骨关节炎合并固定性髌骨脱位 顾新丰,郑显新,钱齐荣(262)
 Total knee arthroplasty for knee osteoarthritis combined with permanent irreducible dislocation of patella GU Xin-feng, ZHENG Yu-xin, QIAN Qi-rong

关节镜下缝线捆扎配合门型钉治疗胫骨髁间嵴骨折 贾科江,关津京,宋志勇,等(265)
 Arthroscopic suture banding combined with spliked ligament staple in the treatment of tibial intercondylar eminence fracture JIA Ke-jiang,GUAN Jin-jing,SONG Zhi-yong,et al

下肢闭合穿钉辅助外固定支架治疗胫骨干骨折的临床疗效 黄卫,李新志,李意,等(268)
 Clinical effect of closed cross-pin assisted external fixation system of lower extremity in the treatment of tibial shaft fractures HUANG Wei, LI Xin-zhi, LI Yi, et al

关节镜筋膜深层入路治疗跖筋膜炎 郑杰,赵嘉懿,蒋伟亚(272)
 Endoscopic surgery for treatment of plantar fasciitis with deep-fascial approach ZHENG Jie, ZHAO Jia-yi, JIANG Wei-ya

技术改进 Technique Innovation

钝性分离黄韧带在脊柱内镜下 L₅ ~ S₁ 椎间盘摘除术中的应用 秦壁松, 李 森, 吴显培, 等 (276)
 Application of blunt dissection ligamentum flavum technique in percutaneous endoscopic interlaminar discectomy for L₅ ~ S₁ disc herniation *QIN Bi-song, LI Sen, WU Xian-pei, et al*

实验与临床 Experiment and Clinical Practice

骨肉瘤中 miR-194 的表达水平及其与临床病理参数的关系 汪勇刚 (280)
 Expression level of miR-194 in osteosarcoma and its relationship with clinicopathological parameters *WANG Yong-gang*
 猪骨膜去细胞支架的制备及其生物相容性 陈启旺, 孙郁文, 魏 珂, 等 (284)
 Preparation of porcine periosteum acellular scaffold and its biocompatibility *CHEN Qi-wang, SUN Yu-wen, WEI Ke, et al*
 硫酸镁与氯化钠溶液灌洗对创伤性关节炎软骨损伤修复的影响 周 雪, 刘幸卉, 卢泽钰, 等 (288)
 The effect of continuous irrigation of magnesium sulfate and sodium chloride solution on posttraumatic osteoarthritis cartilage injury repair *ZHOU Xue, LIU Xing-hui, LU Ze-yu, et al*

综 述 Review

骨质疏松性骨折影像学检查和骨折预测工具的进展 罗 敏, 刘洋贝, 刘立岷 (292)
 Advancement in imaging examination and fracture prediction tools for osteoporotic fractures *LUO Min, LIU Yang-bei, LIU Li-min*
 肩锁关节脱位的研究进展 崔 瑞, 王培民 (297)
 Research progress of acromioclavicular joint dislocation *CUI Rui, WANG Pei-min*

方法与应用 Methods and Applications

掌侧入路经皮空心加压螺钉治疗舟骨骨折 刘玉林, 李 涛, 崔彦彬, 等 (170)
 Percutaneous cannulated compression screw for treatment of scaphoid fracture via volar approach *LIU Yu-lin, LI Tao, CUI Yan-bin, et al*
 锁扣带样钛板治疗伴有下胫腓联合损伤的踝关节骨折 叶永志, 李家德, 林 斌, 等 (174)
 TightRope titanium plate in the treatment of ankle fracture with distal tibiofibular syndesmosis injury *YE Yong-zhi, LI Jia-de, LIN Bin, et al*
 关节镜下治疗胫骨髁间嵴陈旧撕脱骨折 陈明初 (186)
 Arthroscopic treatment of tibial intercondylar eminence avulsion old fracture *CHEN Ming-chu*
 CT 三维重建对胫骨平台骨折的诊断价值 冯 政 (206)
 The diagnostic value of CT three-dimensional reconstruction in the treatment of tibial plateau fracture *FENG Zheng*
 关节镜下一期重建修复膝关节多韧带损伤 徐慰凯, 肖雁萍, 李泽龙, 等 (212)
 One-stage reconstruction and repair of multi-ligament injuries of knee by arthroscopy *XU Wei-kai, XIAO Yan-ping, LI Ze-long, et al*
 外翻位固定防治跟骨骨折术后皮肤坏死 袁慧敏, 代燎原, 朱慧锋 (240)
 External valgus fixation for prevention of skin necrosis after calcaneal fracture *YUAN Hui-min, DAI Liao-yuan, ZHU Hui-feng*
 邻骨克氏针杠杆臂弹性固定第 4、5 掌骨颈粉碎性骨折 杨英果, 张 杰, 班兴平 (243)
 Elastic fixation of the lever arm with adjacent bone Kirschner wires for comminuted fracture of the 4th and 5th metacarpal neck *YANG Ying-guo, ZHANG Jie, BAN Xing-ping*
 外固定支架辅助牵引复位内固定治疗股骨远端骨折 陈飞强, 吴 耿, 黄丽仪, 等 (252)
 External fixator assisted traction reduction and internal fixation for distal femoral fractures *CHEN Fei-qiang, WU Geng, HUANG Li-yi, et al*
 内外侧联合入路三钢板治疗过伸型胫骨平台骨折 何伟涛, 丁晓虹, 项叶丹, 等 (261)
 Treatment of hyperextension tibial plateau fractures with three plates via combined medial-lateral approach *HE Wei-tao, DING Xiao-hong, XIANG Ye-dan, et al*
 镜像 3D 打印技术在髌臼骨折手术治疗中的应用 史彦海, 李关兴, 徐艾强, 等 (271)
 The application of mirror 3D printing technique in the surgical treatment of acetabular fractures *SHI Yan-hai, LI Guan-xing, XU Ai-qiang, et al*
 双克氏针成形固定手指末节撕脱骨折 卢道云, 徐林玉, 王 悦, 等 (275)
 Double Kirschner wires forming fixation for treatment of avulsion fracture in the distal finger *LU Dao-yun, XU Lin-yu, WANG Yue, et al*
 全髋与半髋关节置换术治疗股骨颈骨折 陈 尉, 张国如, 王 杨 (301)
 Treatment of femoral neck fracture with total hip arthroplasty and hemiarthroplasty *CHEN Wei, ZHANG Guo-ru, WANG Yang*

肱骨头置换治疗老年肱骨近端骨折 李腾鹏 (302)
Humeral head replacement for treatment of proximal humerus fracture in elderly patients *LI Teng-peng*

病例报道 Case Report

原发性锁骨滑膜肉瘤 1 例 黄先盈,肖增明,刘云 (216)

Primary synovial sarcoma of the clavicle in a case *HUANG Xian-ying, XIAO Zeng-ming, LIU Yun*

Pilon 骨折合并同侧跟骨骨折 1 例 肖永川,梁川东,许泽川,等 (267)

A case of Pilon fracture combined with ipsilateral calcaneal fracture

..... *XIAO Yong-chuan, LIANG Chuan-dong, XU Ze-chuan, et al*

股骨转子下骨折术后不愈合并内固定断裂 1 例 陈家齐,周琦石,李定,等 (279)

Nonunion and fracture of internal fixation following the femoral subtrochanteric fracture in one case

..... *CHEN Jia-qi, ZHOU Qi-shi, LI Ding, et al*

陈旧胸锁关节脱位 1 例 樊启象,李引刚,张军,等 (287)

A case of old sternoclavicular joint dislocation *FAN Qi-xiang, LI Yin-gang, ZHANG Jun, et al*

髓芯减压 + 腓骨支撑联合头颈部开窗术治疗 ARCO III 期股骨头坏死 1 例 吕排云,杜斌 (303)

Core decompression and fibula support surgery combined with head and neck fenestration for treating a case of femoral head

necrosis in ARCO III-stage *LÜ Pai-yun, DU Bin*

马耳他布鲁菌感染致肩关节脱位 1 例 赖伯勇,向孝兵 (304)

Brucella melitensis infection cause shoulder dislocation in a case *LAI Bo-yong, XIANG Xiao-bing*

文摘 Digest

术后血清细胞因子水平与早期全膝置换术后关节僵硬相关:一项前瞻性队列研究 (156)

全髋翻修术后组配式与一体式假体下沉率比较 (199)

关节内注射补充隐神经阻滞可减轻人工膝关节置换术后疼痛:一项前瞻性随机对照试验 (247)

膝关节合并腰椎退行性病变哪个先做手术? (296)

消息 Information

本刊已开通数字优先出版平台 (164)

责任编辑 **Executive Editors** 彭传静 *PENG Chuan-jing* 魏璐 *WEI Lu*

叶婷婷 *YE Ting-ting*

英文编辑 **English Editor** 胡孔足 *HU Kong-zu*

临床骨科杂志 (双月刊)

(1998 年 7 月创刊)

2020 年 4 月 第 23 卷第 2 期

(2020 年 4 月 26 日出版)

主管单位 安徽省教育厅

主办单位 安徽医科大学

安徽省医学会

主 编 戴尅戎 江曙

编辑部主任 卜海富

编辑出版 《临床骨科杂志》编辑委员会

《临床骨科杂志》编辑部

地 址 合肥市梅山路安徽医科大学校内

邮编 230032

电 话 (0551)62923133

传 真 (0551)63664966

电子信箱 *lcgkzz@aliyun.com*

印 刷 合肥现代印务有限公司

国内订阅 全国各地邮局

国内总发行 安徽省邮政局

邮发代号 26 - 147

Journal of Clinical Orthopaedics (Bimonthly)

(Founded in 1998 July)

April 2020; Volume 23, Number 2

(Publication date: April 26, 2020)

Superintendence Anhui Provincial Education Department

Sponsors Anhui Medical University

Medical Association of Anhui Province

Chief Editors DAI Ke-rong, JIANG Shu

Director of Editorial Office BU Hai-fu

Editing and Publishing Editorial Board and Editorial Office of

Journal of Clinical Orthopaedics

Address Anhui Medical University, Meishan Road, Hefei

Zip Code 230032

Tel (0551)62923133

Fax (0551)63664966

E-mail *lcgkzz@aliyun.com*

Printing Hefei Xiandai Printing Limited Company

Domestic Subscription Local Post Offices, China

Domestic Distribution Post Office of Anhui Province, China

Post Subscription Code 26 - 147