

中华医学会系列杂志



QK1803336

ISSN 0253-2352

CN 12-1113/R

中华骨科杂志®

ZHONGHUA GUKE ZAZHI

2017年12月16日 第37卷 第24期

CHINESE JOURNAL OF ORTHOPAEDICS

Volume 37 Number 24

December 16, 2017



中华医学会

CHINESE
MEDICAL
ASSOCIATION

ISSN 0253-2352



9 770253 235177



中华骨科杂志[®]

CHINESE JOURNAL OF ORTHOPAEDICS

半月刊 1981年2月创刊 第37卷 第24期 2017年12月16日出版

主管

中国科学技术协会

主办

中华医学会

100710,北京市东四西大街42号

编辑

中华骨科杂志编辑委员会
300211,天津市河西区解放南路406号
电话:(022)28334734
(022)28378929
(022)28314305
传真:(022)28241184
E-mail:gktougao@126.com
http://www.medline.org.cn
http://www.chinjorthop.com

总编辑

田伟

编辑部主任

胡永成

出版

《中华医学杂志》社有限责任公司
100710,北京市东四西大街42号
电话(传真):(010)85158180
E-mail:office@cma.org.cn

广告发布登记编码

津市场监管西广登[2017]24号

印刷

天津市恒远印刷有限公司

发行

范围:公开
国内:天津市邮政局
国外:中国国际图书贸易集团
有限公司
(北京 399信箱,100044)
代号 M369

订购

全国各地邮政局
邮发代号 6-17

邮购

中华骨科杂志编辑部
300211,天津市河西区解放南路406号
电话:(022)28334734
(022)28278929
传真:(022)28241184
E-mail:gktougao@126.com

定价

每期30.00元,全年720.00元

中国标准连续出版物号

ISSN 0253-2352
CN 12-1113/R

2017年版权归中华医学会所有

未经授权,不得转载、摘编本刊文章,不得使用本刊的版式设计

除非特别声明,本刊刊出的所有文章不代表中华医学会和本刊编委会的观点

本刊如有印装质量问题,请向本刊编辑部调换

目次

颈椎疾患

后路寰枢椎钉-棒系统固定融合术治疗

类风湿性寰枢椎脱位 1505

马向阳 邹小宝 杨进城 王宾宾 杨浩志

夏虹 吴增晖 尹庆永

改良3D打印导航模板辅助寰枢椎椎弓根

螺钉置钉的临床应用 1511

蒲兴魏 罗春山 邱冰 赵国权 陆廷盛

姚书耽 陈啟鸽 杨建文

椎管扩大成形术治疗伴生理前凸消失

多节段颈椎疾病的疗效分析 1521

钱宇 金聪 何磊 洪正华 赵晓峰

谢明华 朱国庆

甲状软骨和环状软骨对颈椎前路手术

影响的影像学研究 1530

闫应朝 王建乐 王向阳 吴聪聪 王克

章增杰 陈凯 金海明

颈前路植骨高度对相邻节段影响的三维有限元分析 1540

张玉华 蔡宗熙 熊五一 雪原 刘浩飞

个案报告

寰枢椎脱位应用 Magerl 螺钉联合枢椎椎板

螺钉翻修一例报告 1549

谢雁春 于海龙 孙鹏飞 轩安武 李卓 赵阳阳

经后路单开门减压治疗儿童多节段颈椎间盘

突出症一例报告 1553

李祖涛 缪晓刚 王浩 袁宏 孙俊刚

综述

手术机器人在脊柱外科的应用进展 1556

张宇轩 王洪立 宋健 姜建元

临床论著

临时半髌阻滞术治疗儿童病理性骺板所致膝内、外翻畸形 1561
邓书贞 杨建平 陈兆强 张中礼 龚仁钰 王春会

消 息

《中华骨科杂志》2016年度审稿专家致谢名单 I
《闭合复位技术在四肢骨折治疗中的应用》出版发行 I
欢迎订阅2018年《中华骨科杂志》 II
Orthopaedic Surgery 已被SCI和MEDLINE收录 II

Orthopaedic Surgery 2016年3期目录 中文目次2
本刊稿约见本卷第1期及第13期第I页

Orthopaedic Surgery 2016年3期目录

1	Consensus on Surgical Management of Myeloma Bone Disease The Surgeon's Committee of the Chinese Myeloma Working Group of the International Myeloma Foundation. Orthop Surg, 2016, 8(3): 263-269.	
2	Evolution of Design of Interbody Cages for Anterior Lumbar Interbody Fusion Kevin Phan and Ralph J Mobbs. Orthop Surg, 2016, 8(3): 270-277.	
3	Advances in Spinal Interbody Cages Mikel San-Julian and Blanca Vazquez-Garcia. Orthop Surg, 2016, 8(3): 278-284.	
4	Efficiency and Safety of Intravenous Tranexamic Acid in Simultaneous Bilateral Total Knee Arthroplasty: A Systematic Re view and Meta-analysis Xuan Jiang, Xin-long Ma and Jian-xiong Ma. Orthop Surg, 2016, 8(3): 285-293.	
5	Analgesic Efficacy of Adductor Canal Block in Total Knee Arthroplasty: A Meta-analysis and Systematic Review Xu Jiang, Qian-qian Wang, Cheng-ai Wu and Wei Tian. Orthop Surg, 2016, 8(3): 294-300.	
6	Direct Tubular Lumbar Microdiscectomy for Far Lateral Disc Herniation: A Modified Approach Timothy L T Siu and Kainu Lin. Orthop Surg, 2016, 8(3): 301-308.	
7	Health-related Quality of Life in Patients with Metastatic Spinal Cord Compression Søren S Morgen, Svend A Engelholm, Claus F Larsen, Rikke Sogaard and Benny Dahl. Orthop Surg, 2016, 8(3): 309-315.	
8	Comparison of AO Titanium Locking Plate and Screw Fixation versus Anterograde Intramedullary Fixation for Isolated Unstable Metacarpal and Phalangeal Fractures Bing Zhang, Pan Hu, Kun-lun Yu, Jiang-bo Bai, De-hu Tian, Gui-sheng Zhang, Xin-zhong Shao and Ying-ze Zhang. Orthop Surg, 2016, 8(3): 316-322.	
9	Treatment of Distal Femur Nonunion Following Initial Fixation with a Lateral Locking Plate Nabil A. Ebraheim, Grant S. Buchanan, Xiaochen Liu, Maxwell E. Cooper, Nicholas Peters, Jacob A. Hessey and Jiayong Liu. Orthop Surg, 2016, 8(3): 323-330.	
10	Partial versus Intact Posterior Cruciate Ligament-retaining Total Knee Arthroplasty: A Comparative Study of Early Clinical Outcomes Bo Zhang, Cheng-kung Cheng, Tie-Bing Qu, Yong Hai, Yuan Lin, Jiang Pan, Zhi-wei Wang and Liang Wen. Orthop Surg, 2016, 8(3): 331-337.	
11	Intraoperative Arthrogram Predicts Residual Dysplasia after Successful Closed Reduction of DDH Zhong-li Zhang, Zhe Fu, Jian-ping Yang, Kan Wang, Li-wei Xie, Shu-zhen Deng and Zhao-qiang Chen. Orthop Surg, 2016, 8(3): 338-344.	
12	An Alternative Intraoperative Radiographic Method for Optimizing Cup Inclination during Total Hip Arthroplasty Gang-yong Huang, Guang-lei Zhao, Jun Xia, Yi-bing Wei, Si-qun Wang and Jian-guo Wu. Orthop Surg, 2016, 8(3): 345-351.	
13	Bilaterally Primary Cementless Total Hip Arthroplasty for Severe Hip Ankylosis with Ankylosing Spondylitis Dong-xu Feng, Kun Zhang, Yu-min Zhang, Yue-wen Nian, Jun Zhang, Xiao-min Kang, Shu-fang Wu and Yang-jun Zhu. Orthop Surg, 2016, 8(3): 352-359.	

CHINESE JOURNAL OF ORTHOPAEDICS

Semimonthly Established in February 1981 Volume 37, Number 24 December 16, 2017

Responsible Institution

China Association for Science
and Technology

Sponsor

Chinese Medical Association
42 Dongsi Xidajie, Beijing 100710, China

Editing

Editorial Board of Chinese Journal
of Orthopaedics

406 Jiefangnan Road, Tianjin 300211, China

Tel: 0086-22-28334734

0086-22-28278929

0086-22-28314305

Fax: 0086-22-28241184

E-mail: gktougao@126.com

http://www.medline.org.cn

http://www.chinorthop.com

Editor-in-chief

Tian Wei (田伟)

Managing Director

Hu Yongcheng (胡永成)

Publishing

Chinese Medical Journals

Publishing House Co., Ltd.

42 Dongsi Xidajie, Beijing 100710, China

Tel (Fax): 0086-10-85158180

E-mail: office@cma.org.cn

Printing

Tianjin Hengyuan Printing
Co., Ltd

Overseas Distributor

China International Book

Trading Corporation

P.O. Box 399, Beijing 100044, China

Code No. M369

Mail-Order

Editorial Office of Chinese Journal
of Orthopaedics

406 Jiefangnan Road, Tianjin, 300211, China

Tel: 0086-22-28334734

0086-22-28278929

Fax: 0086-22-28241184

E-mail: gktougao@126.com

CSSN

ISSN 0253-2352

CN 12-1113/R

Copyright © 2017 by the Chinese Medical Association

No content published by the journals of
Chinese Medical Association may be
reproduced or abridged without
authorization. Please do not use or copy
the layout and design of the journals
without permission.

All articles published represent the
opinions of the authors, and do not
reflect the official policy of the Chinese
Medical Association or the Editorial
Board, unless this is clearly specified.

CONTENTS

Disease of Cervical Vertebrae

- Posterior screw-rod fixation fusion for the treatment
of atlantoaxial dislocation due to
rheumatoid arthritis** 1505
*Ma Xiangyang, Zou Xiaobao, Yang Jincheng,
Wang Binbin, Yang Haozhi, Xia Hong,
Wu Zenghui, Yin Qingshui*

- Research on application of advanced 3D printing navigation
templates in assisting placement of atlantoaxial
pedicle screw** 1511
*Pu Xingwei, Luo Chunshan, Qiu Bing, Zhao Guoquan,
Lu Tingsheng, Yao Shudan, Chen Qilin, Yang Jianwen*

- Posterior enlargement of spinal canal for the treatment
of multi-segmental cervical diseases without
cervical lordosis** 1521
*Qian Yu, Jin Cong, He Lei, Hong Zhenghua,
Zhao Xiaofei, Xie Minghua, Zhu Guoqing*

- The radiologic anatomy of thyroid cartilage and
cricoid cartilage: implications for
anterior cervical spine surgery** 1530
*Yan Yingzhao, Wang Jianle, Wang Xiangyang,
Wu Congcong, Wang Ke, Zhang Zengjie,
Chen Kai, Jin Haiming*

- The finite element analysis of the effect of height of
bone graft on adjacent segment after anterior
cervical decompression and fusion** 1540
*Zhang Yuhua, Cai Zongxi, Xiong Wuyi,
Xue Yuan, Liu Haoifei*

Case Report

- Application of Magerl screws combined with C₂ lamina
screws in revision of internal fixation of atlantoaxial
dislocation: case report** 1549
*Xie Yanchun, Yu Hailong, Sun Pengfei, Xuan Anwu,
Li Zhou, Zhao Yangyang*

- Posterior unilateral open-door laminoplasty in
multi-segmental cervical disc herniation:
case report** 1553
*Li Zutao, Miao Xiaogang, Wang Hao,
Yuan Hong, Sun Jungang*

Review

- Research and application progress of surgical robot
in spine surgery** 1556
Zhang Yuxuan, Wang Hongli, Song Jian, Jiang Jianyuan

Clinical Original Article

- Temporary hemiepiphysiodesis for treatment of genu varum
and valgum with pathologic physis in children** 1561
*Deng Shuzhen, Yang Jianping, Chen Zhaoqiang,
Zhang Zhongli, Gong Renyu, Wang Chunhui*



CD HORIZON SOLERA
脊柱内固定系统



注册证号: 国械注进20153460096
注册证产品名称: 脊柱内固定系统
注册人名称: Medtronic Sofamor Danek USA, Inc.

ATLANTIS VISION ELITE
颈椎前路固定系统



注册证号: 国食药监械(进)字2014第3462520号
注册证产品名称: 颈椎前路钢板系统
生产企业: Medtronic Sofamor Danek USA, Inc.

OLIF25 PROCEDURE
斜侧入路椎体间融合术



CENTERPIECE
颈椎椎板成形系统



注册证号: 国械注进20153463787
注册证产品名称: 颈椎椎板内固定系统
注册人名称: Medtronic Sofamor Danek USA, Inc.

KYPHON XPANDER II
骨成型球囊



注册证号: 国食药监械(进)字2014第3105855号
注册证产品名称: 骨成型球囊
生产企业: Medtronic Sofamor Danek USA, Inc.

CLYDESDALE
OLIF 椎间融合器



注册证号: 国食药监械(进)字2013第3463218号
注册证产品名称: 椎间融合器
生产企业: Medtronic Sofamor Danek USA, Inc.

沪医械广审(文)第2017020152号
禁忌内容或注意事项详见说明书

