屋图生物力学

YIYONG

SHENGWU

LIXUE

双月刊 1986年6月创刊 第35卷 第6期 2020年12月出版



[期刊基本参数] CN 31-1624/R * 1986 * b * A4 * 130 * zh+en * P * ¥ 25.00 * 2000 * 18 * 2020-12

[期刊基本梦致] GN 31-1624
主管
中华人民共和国教育部
主办
上海交通大学 承 办
上海交通大学医学院附属 上海交通大学医学院附属
第九人民医院
出版
《医用生物力学》编辑部
编辑部
地址 上海市制造局路 639 号 邮编 200011
电话 (021)53315397 传真 (021)63137020
电子邮件 shengwulixue@163.com
网址
http://www.medbiomechanics.com
http://www.mechanobiology.cn 微博
http://weibo.com/u/2040064195
广告部 水 汶
主编
戴尅戎 常务副主 编
姜宗来
副主编
陈维毅 樊瑜波 龙 勉 秦 岭 郑诚功
编辑部主任
于志锋
E-mail: zfyu@ outlook.com 责任编辑
徐绮
E-mail: 1534340082@ qq.com
英文编辑 吴晓芸
- 天祝云 - 编 - 辑
《医用生物力学》编辑委员会
印 刷 山西同方知网印刷有限公司
国内发行
上海市报刊发行局
国外总发行 中国国际图书贸易总公司
订 购
全国各地邮局 邮发代号 4-633
定价
每期:25.00 元 全年 150.00 元 国内统一连续出版物号 CN 31-1624/R
国际标准连续出版物号 ISSN 1004-7220
CODEN YSLIBU ©2020 年版权归《医用生物力学》
编辑部所有

目 次(卷终)

专》	家论坛
	神经生物力学增能技术前沿与进展(649)
	傅维杰,刘宇
运	动生物力学专栏
	深蹲动作下三连杆模型的对比分析 (658)
	潘正晔,王虹,蔺世杰,郑伟涛
	跑姿再训练对冲击力、下肢生物力学及刚度的影响 (665)
	杨洋,张希妮,罗震,王熙,傅维杰
	髌股关节痛业余跑者性别特异的下肢生物力学特征 (672)
	杨辰,曲峰,刘卉,万祥林,冯茹,于冰
	踝关节贴扎在优势侧落地动作中对膝关节生物力学特性的影响
	(679)
	王海妹,谢地,马旭,陈卉芳,时潇,马彬,刘海斌,李晓铭
	变频振动训练对功能性踝关节不稳的影响 (685)
	高晓娟,储照伟,李文言,侯亚丽,马蕊,李俊平
	椭圆交叉训练机锻炼时人体生物力学与动力学特点 (692)
	孙朝阳,何育民,郭超,郭思宇
	基于 AnyBody 仿真的瑜伽动作下肢生物力学特征 (698)
	赵盼超,纪仲秋,文蕊香,陈齐,姜桂萍
论	著
	胶原纤维束对软骨力学性能的影响 (705)

龚虎臣,门玉涛,赵忠海,张春秋

	Bernese 髋臼截骨术术前规划中骨盆建模对结果的影响	(712)
	田昊,许平,鲁宁,彭金海,王瑞昌,鲍胜亮	
	基于多孔介质模型的血流导向装置栓塞颅内动脉瘤的敏感性	(718)
	白斌,程云章,高卉,吕楠,彭琳晶	
	LASIK 手术剩余基质床厚度安全保留值的数值模拟	(725)
	董智超,高志鹏,武晓刚,陈宇,蒋文涛	
	基于有限元法研究顺产肛提肌损伤与盆底疾病的发生	(732)
	周琳夕,谷雪莲,杜洪灵	
	力学刺激对巨噬细胞极性的影响	(739)
	池广浩,李般若,吴伟,郝敏,马建,邱龙顺	
	左室收缩末期生物力学变化与舒张性心衰发病机制的相关性	(744)
	桂艳霞,司效东	
	改进型耻骨联合分离记忆合金内固定器的生物力学特性	(750)
	周君,宫玉锁,李盛华,朱艳国	
综	述	
	初级纤毛在关节软骨中的生物力学效应	(754)
	许博洋,方添玉,赵美丹	
	力学因素对血管内皮细胞成血管影响及机制的研究进展	(760)
	李佳宜,房兵	
言	息	
	《医用生物力学》2020年第35卷总目次	(767)
	《医用生物力学》2020年第35卷第1~6期关键词索引	(771)
	《医用生物力学》2020年第35卷第1~6期作者索引	(775)
	致审稿专家感谢信	(封二)
	第十三届全国生物力学学术会议征文通知	(封三)

《医用生物力学》杂志由中华人民共和国教育部主管、上海交通大学主办,所发表之图文、版权(含翻译权)均归《医用生物力学》编辑部(出版人)所有。未经出版人书面许可,不得对本刊内容进行任何目的和形式的转载、转播及复制,包括转换成用于资料信息处理设施的机械、电子语言。

本刊实行通讯作者负责制,每篇论文均由 2~3 位同行评委(peer reviewer)独立审稿。发表的图文中所表达的任何内容与观点,均属作者个人的见解与意见,并不反映和代表《医用生物力学》编辑部的立场和观点。有关所发表文章的任何问题,均由作者负责解释,出版人不承担任何与之相关的责任。

本刊是中国科技核心期刊,已被北京大学图书馆《中文核心期刊要目总览》、《中国科学引文数据库》、 荷兰《文摘与引文数据库》等国内外多家知名数据库收录。

本杂志采用无酸纸(acid-free)印刷。

JOURNAL OF MEDICAL BIOMECHANICS

Published Bimonthly Founded in June, 1986 Volume 35 Number 6. Dec. 2020 Journal Basic Information CN 31-1624/B * 1986 * b * A4 * 130 * zh+en * P * ¥25.00 * 2000 * 18 * 2020-12 $Contents_{(\, \text{End of Volume})}$ Supervised by Ministry of Education of People's Republic of China **Invited Review** Sponsored by Shanghai Jiao Tong University Frontiers and Progress in Neuro-Biomechanical Ergogenic Technology Organized by Shanghai Ninth People's Hospital. (649) Shanghai Jiao Tong University School of Medicine FU Weijie, LIU Yu Published by Editorial Office of **Special Column on Sports Biomechanics** Journal of Medical Biomechanics Editorial Office Comparative Analysis of Three-Link Model in Deep Squatting ... (658) No. 639 Zhizaoiu Rd... Shanghai 200011, China PAN Zhengye, WANG Hong, LIN Shijie, ZHENG Weitao Tel: + 86 21 53315397 Effects of Gait Retraining on Impact Forces, Lower Limb Biomechanics Fax + 86 21 63137020 E-mail: shengwulixue@ 163.com and Leg Stiffness (665) Website · http://www.medbiomechanics.com YANG Yang, ZHANG Xini, LUO Zheng, WANG Xi, FU Weijie http://www.mechanobiology.cn Microblog: Sex-Specific Lower Extremity Biomechanics of Amateur Runners http://weibo.com/u/2040064195 Advertising division: SHUI Wen with Patellofemoral Pain (672) Editor-in-Chief DAI Kerona YANG Chen, OU Feng, LIU Hui, WAN Xianglin, FENG Ru, YU Bing **Executive Vice Editor-in-Chief** JIANG Zonglai Effects of Ankle Taping on Knee Biomechanics during Dominant-Associate Editors-in-Chief Legged Drop Landing (679) CHEN Weiyi CHENG Chengkung FAN Yubo I ONG Mian WANG Haimei, XIE Di, MA Xu, CHEN Huifang, SHI Xiao, MA Bin, QIN Lina **Editorial Director** LIU Haibin, LI Xiaoming YU Zhifena E-mail: zfyu@ outlook.com Effects of Vibration Training with Adjusted Frequency on Functional **Executive Editor** XU Qi Ankle Instability (685) E-mail: 1534340082@ gg.com **English Editor** GAO Xiaojuan, CHU Zhaowei, LI Wenyan, HOU Yali, MA Rui, LI Junping WU Xiaoyun Edited by Biomechanical and Dynamic Characteristics of Human Body Editorial Board of during Exercise on Elliptical Cross Trainer (692) Journal of Medical Biomechanics Printed by SUN Zhaoyang, HE Yumin, GUO Chao, GUO Siyu Shanxi Tongfang Knowledge Network Printing Co., Ltd. Biomechanical Characteristics of Lower Limbs of Yoga Posture Based Overseas Distributor China International Book on AnyBody Simulation (698) **Trading Cooperation** China Standard Serial Numbering ZHAO Panchao, JI Zhongqiu, WEN Ruixiang, CHEN Qi, JIANG Guiping ISSN 1004-7220 CN 31-1624/R **Original Articles** CODEN YSLIBU Subscription Effects of Collagen Fiber Bundle on Mechanical Properties of Articular

Cartilage (705)

GONG Huchen, MEN Yutao, ZHAO Zhonghai, ZHANG Chunqiu

Yearly Subscription Rates: 150.00 RMB

Single Issue: 25.00 RMB

Copyright © 2020 by the Editorial Board of *Journal of Medical Biomechanics*

The Effect of Pelvic Modeling on Outcome in Preoperative Planning for Bernese Acetabular Osteotomy (712)
TIAN Hao, XU Ping, LU Ning, PENG Jinhai, WANG Ruichang, BAO Shengliang
Sensitivity Analysis of Flow Diverter Treatment of Intracranial Aneurysm Using Porous Media Model (718)
BAI Bin, CHENG Yunzhang, GAO Hui, LÜ Nan, PENG Linjing
Numerical Simulation for the Safe Retention Value of Residual Stromal Bed Thickness in Laser-Assisted
in situ Keratomileusis
DONG Zhichao, GAO Zhipeng, WU Xiaogang, CHEN Yu, JIANG Wentao
Injury of Levator Ani Muscles and Occurrence of Pelvic Floor Diseases during Vaginal Delivery Based on
Finite Element Method
ZHOU Linxi, GU Xuelian, DU Hongling
Effects of Mechanical Stimulation on Polarity of Macrophages (739)
CHI Guanghao , LI Banruo , WU Wei , HAO Min , MA Jian , QIU Longshun
Correlation between Biomechanical Changes at the End of Left Ventricular Systole and Pathogenesis of
Diastolic Heart Failure
GUI Yanxia , SI Xiaodong
Biomechanical Properties of the Modified Memory Alloy Internal Fixator for Separation of Pubic Symphysis (750)
ZHOU Jun, GONG Yusuo, LI Shenghua, ZHU Yanguo
Review Articles
Biomechanical Effects of Primary Cilia in Articular Cartilage (754)
XU Boyang, FANG Tianyu, ZHAO Meidan
Research Progress in Effects of Mechanical Factors on Angiogenesis of Vascular Endothelial Cells and
the Mechanism(760)
LI Jiayi, FANG Bing
Information
General Contents of Volume 35,2020, Journal of Medical Biomechanics
Key Words Index from Issue 1 to 6 of Volume 35,2020, Journal of Medical Biomechanics (771)
Author Index from Issue 1 to 6 of Volume 35,2020, Journal of Medical Biomechanics (775)
A Letter of Thanks to Reviewers ····· (inside front cover)

The Journal of Medical Biomechanics (JMB) is sponsored by Shanghai Jiao Tong University and supervised by Ministry of Education of People's Republic of China. The copyright is reserved by Editorial Office of Journal of Medical Biomechanics. No contents are allowed to be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the written permission from the publisher.

The 13th National Conference on Biomechanics: Call for Papers (inside back cover)

All manuscripts are reviewed by two or three independent expert reviewers. The information presented in the papers and the opinions expressed therein are those of the individual authors and not necessarily reflect the views of the Editorial Board of *Journal of Medical Biomechanics*. The publisher assumes no liability for any materials published in the journal. All statements are the responsibilities of the authors, particularly the corresponding author (s).

JMB is the source journal for Chinese Scientific and Technical Papers and Citations, and is selected in the *Guide to the Core Journals of China* by Peking University Library. It has been included in certain famous databases such as China Science Citation Database (CSCD) and Scopus.

This journal is printed on acid-free papers.