

# 中国医疗设备

# 01

China Medical Devices (原名 医疗设备信息) 吴阶平题

2024 VOL.39 No.01, 2024  
年 第39卷 第01期

主管单位: 国家卫生健康委员会 主办单位: 中国整形美容协会 编辑出版: 《中国医疗设备》杂志社

广告

## 《中国医疗器械行业数据报告》(2023)

“医疗器械蓝皮书”中国社会科学院的思想库、智囊团

数据翔实

覆盖范围广

工具性强

可读性高

### 皮书5大优势

决策参考

政策先声

投资指南

新闻来源

研究基础库



牵头单位: 《中国医疗设备》杂志社 出版单位: 社会科学文献出版社

• 中国科技核心期刊 (中国科技论文统计源期刊: 2022-G679-1301)

ISSN 1674-1633



9 771674 163247

《中国学术期刊影响因子年报》统计源期刊  
中国学术期刊综合评价数据库(CAJCED)全文收录  
中国科技论文与引文数据库(CSTPCD)全文收录

中国期刊全文数据库(CJFD)全文收录  
中国生物医学期刊文献数据库(CMCI)收录  
荣获首届《CAJ-CD规范》执行优秀期刊奖

### 研究论著

#### 医学工程技术

- |    |  |               |
|----|--|---------------|
| 1  | 基于5G移动通信技术在医疗设备管理中的研究                    | 吴风浪           |
| 6  | 基于机器学习的中医体质分类研究                          | 潘康宁 王洪杰 于 霞 等 |
| 12 | 机器学习在医疗与健康应用场景下的恶意流量检测                   | 高健云 刘颖颖 戴依蓝 等 |
| 18 | 考虑测量误差的CUSUM控制图对维纳过程的监控设计                | 刘利平 王晓雪 马 强   |
| 24 | 一种7.5F自研心腔内超声动物实验                        | 冯文慧 何精才 曹 琴 等 |
| 29 | 基于国产加速器URT-Linac 506c的计划复杂度分析和患者计划质量保证预测 | 祝鹤龄 杨 波 祝起祺 等 |
| 35 | 科研MRI质量控制系统的开发与应用                        | 韩梦杨 王雪雪 张建业 等 |
| 44 | 基于呼吸机传感器系统故障关联的失效率和可靠性研究                 | 徐 慧 王士森       |
| 50 | 心脏除颤仪自动体外除颤和起搏功能质控检测实践方法探讨               | 麦达成 肖 翔 陈远鹏 等 |
| 56 | EDR2胶片对扫描质子碳离子束的能量响应研究                   | 孙 威 李永强       |
| 61 | Catalyst光学体表监测在左侧乳腺癌ABC-DIBH放射治疗中的应用     | 刘剑锋 钟鹤立 张光伟 等 |
| 67 | 乳腺癌保乳术后摆位误差对放疗计划剂量的影响                    | 钟思瑶 孙 斌 徐 程 等 |
| 73 | 通量平滑度对食管癌放疗计划的影响                         | 孙 宇 张 武 刘 灏 等 |

#### 医院数字化管理

- |    |                                   |               |
|----|-----------------------------------|---------------|
| 79 | 基于HIS病种诊疗小目录的DRG主诊断选择辅助支持功能的设计与实现 | 王兴强 徐茂云       |
| 85 | 基于C/S架构和物联网技术的可移动医疗设备共享调配系统的设计与应用 | 王 杰 薛博宇 徐云华 等 |
| 92 | 我院门诊国家医保结算系统的设计与应用                | 陈建福           |
| 97 | 技术支持视角下医疗设备维修智能管理系统的设计与应用         | 朱兴广 白丽娟 贾梦帆 等 |

102	基于SPD系统的骨科植入性耗材管理实践	陈云芝 王柯赛 冯学琛 等
109	PDCA持续改进工作流程提升PET/CT工作效率的研究与实践	张中一 侯晓广 蔡良 等
114	医用耗材SPD管理模式在某三级公立医院的应用实践与成效	马宪礼 徐道亮 郑瑞强 等
119	以监护仪、输液泵、注射泵为例对全院级医疗设备集中管理模式的实践与探索	谢峰 吴航 王晓龙 等
125	基于医用耗材精细化管理的智能大数据成本分析研究	秦雄妹 王宜威
<b>医学影像技术</b>		
133	儿童腹盆部CT辐射剂量指标的比较及回归方程的建立与分析	张见 张晓军
138	表观扩散系数直方图预测子宫动脉栓塞术治疗子宫腺肌病疗效的临床价值	朱晓青 金文韬
<b>综述</b>		
144	远程心电监测技术在冠心病患者应用中的研究进展	任鑫 张佳宇 张美霞
150	影像技术对直肠癌环周切缘术前评估的研究进展	白晶晶 吴国柱
156	微创外科多自由度柔性超声手术刀研究进展	邬苗 冯庆敏 刘胜林 等
161	脑电情绪识别研究现状及展望	王海旭
166	CT纹理分析技术在孤立性肺结节良恶性鉴别诊断中的研究进展	温笑楠 孙建男 阎冬琪
172	放射治疗用kV级X射线图像引导设备的辐射防护研究	谢士兵 王培臣 张新 等
<b>设备维修</b>		
177	瓦里安C系列加速器枪系统与联锁原理分析和典型案例	张庆钊 叶裕丰 刘凌湘

## RESEARCH WORK

### MEDICAL ENGINEERING TECHNOLOGY

- 1 Research on Medical Equipment Management Based on 5G Mobile Communication Technology  
*WU Fenglang*
- 6 Research on Traditional Chinese Medicine Constitution Classification Based on Machine Learning  
*PAN Kangning, WANG Hongjie, YU Xia, et al*
- 12 Machine Learning for Malicious Traffic Detection in Medical and Health Application Scenarios  
*GAO Jianyun, LIU Yingying, DAI Yilan, et al*
- 18 Monitoring Design of Wiener Process with CUSUM Control Chart Considering Measurement Errors  
*LIU Liping, WANG Xiaoxue, MA Qiang*
- 24 Animal Experiment of a 7.5F Self-Developed Intracardiac Echocardiography  
*FENG Wenhui, HE Jingcai, CAO Qin, et al*
- 29 Analysis of Complexity Metrics and Patient-Specific Quality Assurance Prediction Based on Domestically Made Accelerator URT-Linac 506c  
*ZHU Heling, YANG Bo, ZHU Qizhen, et al*
- 35 Development and Application of MRI Quality Control System for Scientific Research  
*HAN Mengyang, WANG Xuexue, ZHANG Jianye, et al*
- 44 Research on Failure Rate and Reliability Based on Fault Correlation of Ventilator Sensor System  
*XU Hui, WANG Shisen*
- 50 Exploration for the Practice Method of Automatic External Defibrillation and Pacing Function Quality Control Testing for Cardiac Defibrillators  
*MAI Dacheng, XIAO Xiang, CHEN Yuanpeng, et al*
- 56 Study on the Energy Response of EDR2 Film to Scanning Proton and Carbon Ion Beams  
*SUN Wei, LI Yongqiang*
- 61 Application of Catalyst Optical Body Surface Monitoring in ABC-DIBH Radiotherapy for Left Side Breast Cancer  
*LIU Jianfeng, ZHONG Heli, ZHANG Guangwei, et al*
- 67 Effect of Positioning Error on Radiotherapy Planning Dose After Breast Conserving Surgery  
*ZHONG Siyao, SUN Bin, XU Cheng, et al*
- 73 Effect of Fluence Smoothing on Radiotherapy Planning for Esophageal Cancer  
*SUN Yu, ZHANG Wu, LIU Hao, et al*

### DIGITALIZED HOSPITAL MANAGEMENT

- 79 Design and Implementation of Intelligent Support Function for DRG Main Diagnosis Selection Based on HIS Disease and Treatment Small Catalogue  
*WANG Xingqiang, XU Maoyun*
- 85 Design and Application of Mobile Medical Equipment Sharing Management System Based on C/S Architecture and IoT Technology  
*WANG Jie, XUE Boyu, XU Yunhua, et al*
- 92 Research and Application of Outpatient National Medical Insurance Settlement System in Our Hospital  
*CHEN Jianfu*
- 97 Design and Application of Medical Equipment Maintenance Intelligent Management System Based on the Perspective of Technical Support  
*ZHU Xingguang, BAI Lijuan, JIA Mengfan, et al*

- 102 Practices of Orthopedic Implant Consumables Management Based on SPD System  
*CHEN Yunzhi, WANG Kesai, FENG Xuechen, et al*
- 109 Research and Practice of PDCA Continuous Improvement Workflow to Improve PET/CT Work Efficiency  
*ZHANG Zhongyi, HOU Xiaoguang, CAI Liang, et al*
- 114 Application Practice and Effect of SPD Management Mode of Medical Consumables in a Tertiary Public Hospital  
*MA Xianli, XU Daoliang, ZHENG Ruiqiang, et al*
- 119 Research and Practice on the Centralized Management Mode of Medical Equipment in the Hospital Taking Monitor, Infusion Pump and Injection Pump as Examples  
*XIE Feng, WU Hang, WANG Xiaolong, et al*
- 125 Research on Intelligent Big Data Cost Analysis Based on Medical Consumables Fine Management  
*QIN Xiongmei, WANG Yiwei*
- CLINICAL IMAGING TECHNOLOGY
- 133 Comparison of CT Radiation Dose Index in Abdomen and Pelvis of Children and Establishment and Analysis of Regression Equations  
*ZHANG Jian, ZHANG Xiaojun*
- 138 Value of the Apparent Diffusion Coefficient Histogram in Outcome Prediction of Uterine Artery Embolization for Adenomyosis  
*ZHU Xiaoqing, JIN Wentao*

### REVIEW

- 144 Research Progress on the Application of Remote ECG Monitoring Technology in Patients with Coronary Heart Disease  
*REN Xin, ZHANG Jiayu, ZHANG Meixia*
- 150 Research Progress in Imaging Technology on Preoperative Evaluation of Circumferential Resection Margin in Rectal Cancer  
*BAI Jingjing, WU Guozhu*
- 156 Research Progress on the Flexible Ultrasonic Scalpel in Minimally Invasive Surgery  
*WU Miao, FENG Qingmin, LIU Shenglin, et al*
- 161 Research of Current Status and Future Outlook of EEG Emotion Recognition  
*WANG Haixu*
- 166 Research Progress of CT Texture Analysis Technology in the Differential Diagnosis of Benign and Malignant in Isolated Pulmonary Nodules  
*WEN Xiaonan, SUN Jiannan, YAN Dongqi*
- 172 Research of Radiation Protection of kV X-IGRT Equipment Use in Radiotherapy  
*XIE Shibing, WANG Peichen, ZHANG Xin, et al*

### DEVICE MAINTENANCE

- 177 Principle Analysis Between Gun System and Interlock in Varian C-Series Accelerator and Typical Cases  
*ZHANG Qingzhao, YE Yufeng, LIU Lingxiang*

# 中国医疗设备 官方公众号



杂志介绍

写作技巧

投稿必看

稿件进度查询



扫描二维码  
关注“中国医疗设备”服务号

《中国医疗设备》杂志社官方公众号，以国家级科技核心期刊《中国医疗设备》杂志为导向，专注学术交流，线上线下结合，助力医工发展。