

摘 要

血液作为珍贵的医疗资源，在病症治疗中起着重要的作用，尤其是在手术、移植等重大医疗事件中，输血起到关键性的作用。然而，在输血用血的过程中，存在很多数据庞大、信息繁杂、信息统计慢的问题。如何合理的使用血液成为必须攻克医疗问题。随着计算机的普及和计算机技术的飞速发展，利用计算机技术开发输血安全管理系统就成为医院信息化建设的重要方案。

为实现输血与临床用血信息实时共享，促进临床输血正规化、规范化建设，进一步优化医疗流程，将医院建设成管理信息化的数字化综合体系。设计开发了输血安全管理系统为医院血库管理系统，以提高医生的工作效率、提高血液信息的完整性、提高医院的经济效益和提高医疗服务质量而设计的软件。

输血安全管理系统基于二层 C/S 的体系结构的应用软件，系统通过输血科模块、护士模块及医生模块三大模块来提高输血安全管理。为满足医护工作者的需要，系统具备血袋入库，交叉配血，发血管理，输血与回收等完善的功能模块，具有良好的交互性、存取安全、速度快，非常适合医院高效的管理模式。在技术上，通过分析输血安全管理系统的实际需求，采用 C#语言设计，使用具有良好的兼容性、可移植性、可连接性和高生产率的 Oracle 数据库进行数据存储和处理。

关键词：输血安全管理系统，C/S 结构，C#，Oracle 数据库

Abstract

As a precious medical resource, blood plays an important role in the treatment of diseases, especially in major medical events such as surgery and transplantation, blood transfusion plays a key role. However, in the process of blood transfusion, there are many problems such as huge data, complex information and slow information statistics. How to use blood rationally has become a medical problem that must be overcome. With the popularization of computer and the rapid development of computer technology, the development of blood transfusion safety management system by computer technology has become an important project of hospital information construction.

In order to realize the real-time sharing of blood transfusion and clinical blood use information, promote the standardization and standardization of clinical blood transfusion, further optimize the medical process, and build the hospital into a digital comprehensive system of management informatization. Blood transfusion safety management system is designed and developed for the hospital blood bank management system, in order to improve the work efficiency of doctors, improve the integrity of blood information, improve the economic benefits of hospitals and improve the quality of medical services.

The blood transfusion safety management system is based on the application software of the C/S architecture. The system improves the blood transfusion safety management through three modules: the blood transfusion department module, the nurse module and the doctor module. In order to meet the needs of medical workers, the system has a blood bag storage, cross matching, blood management, blood transfusion and recovery and other perfect functional modules, with good interaction, safe access, fast, very suitable for the efficient

hospital management mode. In terms of technology, by analyzing the specific requirements of the transfusion safety management system, it adopts the C# and uses the Oracle database with good compatibility, portability, connectivity and high productivity for data storage and processing.

Key words: The blood transfusion safety management system, C/S, C#, Oracle

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