



Title: Comprehensive Intelligent Surveillance and Emotional Regulation System for Donor and Staff Interaction Management and Quality Assurance in Blood Donation Centers

Comprehensive Intelligent Surveillance, Emotional Regulation, and Behavioral Monitoring System for Donor and Staff Optimization

Abstract:

This invention integrates advanced facial recognition, voice analysis, and robotic assistance into a real-time monitoring and emotional regulation system for donor and staff management in plasma and blood donation centers. The system tracks and responds to emotional and behavioral patterns, ensuring safety, compliance, and quality assurance in the donation process. For donors, the system addresses negative emotions with empathetic digital care and intervention, optimizes their experience through robotic and digital assistance, and promotes positive emotions for retention and referrals. For staff, the system enforces behavioral standards, rewards positive emotional states, and prompts corrective actions for negative behaviors. The system integrates with AI-driven monitoring tools for donation safety, robotic phlebotomy, and incentive programs, creating an emotionally regulated and highly optimized environment for sourcing high-quality products while mitigating risks.
