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Medical System Verification through Blockchain

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Abstract: *Healthcare systems recently experienced security risks and data problems, thus becoming less trustworthy in processing medical data. Conventional techniques for detecting shared medical records usually impracticable, tied to potential tampering and centralized threats. The paper provides a new idea of medical diagnosis relying on blockchain technology decentralization, unchangeability, and transparency of blockchain offer an answer to enhance trust in medical information and processes. The architecture employs a private blockchain network to capture and handle medical information, yet supports tamper proof and secure sharing between doctors, patients and other concerned stakeholders. Encryption of data, access control and authentication are ensured with the help of cryptography technology and smart contracts.*

Keywords: Blockchain, Medical Information, Decentralized ledger, Smart Contracts

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