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(57) Abstract :

The invention discloses a cloud-supported platform (101) for secure medical data sharing that integrates role-based access control (102), interoperability APIs (103), consent management (104), AI-based anomaly detection (105), and blockchain verification unit (106). The system ensures confidentiality, transparency, and compliance by encrypting medical data during storage and transmission, enabling seamless data exchange across healthcare systems, and empowering patients with control over access rights. The invention provides a robust, scalable, and secure solution to address challenges in modern healthcare information exchange.

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