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(57) Abstract :

The present invention relates to a comprehensive Internet of Things (IoT) based method for continuous compliance monitoring in pharmacy distribution systems. The system integrates wireless sensor networks, blockchain technology, and machine learning algorithms to provide real-time tracking and compliance verification of pharmaceutical products throughout the distribution chain. The invention comprises IoT sensors embedded in pharmaceutical packaging, environmental monitoring devices, GPS tracking modules, and a centralized cloud-based analytics platform. The system continuously monitors critical parameters including temperature, humidity, light exposure, tamper evidence, location tracking, and chain of custody documentation. Machine learning algorithms analyze patterns to predict potential compliance violations before they occur. The system generates automated alerts, compliance reports, and provides blockchain-based immutable audit trails for regulatory authorities. This invention addresses critical gaps in pharmaceutical distribution monitoring by providing continuous, automated, and verifiable compliance tracking that significantly reduces medication safety risks while ensuring adherence to regulatory standards.

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