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(57) Abstract :

The present disclosure relates to a vaccine supply chain management system (100) that provides a secure and reliable solution for managing the vaccine supply chain and employs blockchain technology to monitor and record temperature, dry ice level, and location data of vaccine shipments. The system includes a decentralized database (112) connected to an AI engine (102) that uses sensors and trackers attached to each container to monitor and record the data on a blockchain network (104). The recorded data can be accessed by authorized entities through a user interface, allowing real-time tracking of vaccine shipments. The system also includes learning algorithms to detect deviations from predefined rules and conditions and a quality control module to ensure the integrity of vaccine shipments.

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