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(57) Abstract :

A system (100) and a method (200) for home-based isolation monitoring is provided. The system (100) includes a smart gateway (102) having one or more sensors (104). The one or more sensors (104) collect data of an individual entering a smart house and the smart gateway (102) determines the individual entering the smart house is virus-infected or not and restrict the entry of the infected individual. The system (100) for home-based isolation monitoring offers a unique approach to data transfer and memory management that helps mitigate the risks associated with the use of advanced technologies in pandemic situations. The system (100) keeps updating infection data of the individual's on a blockchain network (106) without the aid of other parties. The system (100) reduces risk of data breaches and provides additional security and privacy.

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