ABSTRACT

The 5.0 Industrial Revolution is a concept focused on the integration of technology and humans, where advancements in the digital era make the routine integration of quality data a crucial component in realizing the digital transformation of healthcare systems. One significant issue in digitalization is data security for healthcare institutions, especially hospitals, which are particularly vulnerable to cybercrime, such as patient data leaks that have occurred in other health institutions. This also poses a threat to RS Permata Cirebon in achieving quality healthcare services.

This research aims to evaluate patient data security in hospitals based on existing policies and established procedures. The study is expected to provide useful recommendations for RS Permata Cirebon to enhance the effectiveness and security of its information management systems, particularly concerning SDGs 3.8.1. Additionally, this research could contribute to the development of security systems used at RS Permata Cirebon for patients.

The method used in this research is qualitative with an evaluative approach. Data collection was conducted through interviews with four relevant informants, observation, and also collect documentation data to obtain information about the current conditions. Data analysis was performed to identify themes derived from various informants.

The results indicate that RS Permata Cirebon has implemented several patient data security protection measures, such as VPN implementation, access restrictions, and dashboard-based monitoring. However, these efforts need to be strengthened with additional strategies, such as implementing blockchain technology for data encryption, developing Standard Operating Procedures (SOP) for incident reporting, and implementing a cloud-based backup system. Regular training for staff is also a crucial part of building robust data security.

This research contributes to enhancing comprehensive patient data security. The implementation of cutting-edge technology, strengthening policies, and developing human resources are key factors in ensuring patient data remains secure, thereby providing comfort to the public when using healthcare services. The findings from this study can also serve as a reference for other healthcare institutions in formulating similar data security strategies.

Keywords: Patient data security, SDGs 3.8.1, information system evaluation, health digital transformation.