Perancangan Perbaikan Proses Logistik Vaksin COVID-19 Menggunakan Pendekatan Business Process Reengineering = COVID-19 Vaccine Logistics Process Improvement Using Business Process Reengineering

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Abstrak

Untuk mengatasi COVID-19, vaksin perlu didistribusikan secara masif dan cepat. Pada kenyataannya, ditemukan beberapa permasalahan dalam pendistribusian vaksin COVID-19, antara lain manajemen pemesanan yang tidak efisien, birokrasi yang memakan waktu, dan ketinggalan penerbangan yang berujung pada penarikan vaksin ke pusat distribusi. Manajemen rantai pasokan memainkan peran penting dalam memastikan efisiensi distribusi vaksin COVID-19. Makalah ini bertujuan untuk merancang peningkatan distribusi outbound vaksin COVID-19 di Indonesia untuk meningkatkan kinerja logistik menggunakan Business Process Reengineering. Observasi dilakukan untuk memperoleh data primer penelitian ini, dan waktu diperoleh dari data historis. Proses tersebut dipetakan menggunakan Business Process Model and Notation (BPMN) dan disimulasikan menggunakan software iGrafx. Kajian ini menghasilkan peningkatan radikal pada distribusi outbound vaksin COVID-19, yang mengubah waktu proses dari 74,57 jam menjadi 35,81 jam, dengan penerapan Sistem Informasi dengan Integrasi API, QR Code, dan teknologi Sign on Glass.

.....To tackle COVID-19, the vaccine needs to be distributed massively and rapidly. In reality, some problems are found in COVID-19 vaccine distribution, including inefficient order management, time-consuming bureaucracy, and missed flights that lead to the withdrawal of vaccines to the distribution center. Supply chain management plays a significant role in ensuring the distribution efficiency of the COVID-19 vaccine. This paper aims to design the improved outbound distribution of the COVID-19 vaccine in Indonesia to increase logistics performance using Business Process Reengineering. Observation is conducted to gain primary data of this research, and time is obtained from historical data. The process is mapped using Business Process Model and Notation (BPMN) and simulated using iGrafx software. This study results in a radical improvement of the COVID-19 vaccines' outbound distribution, which changes the process time from 74,57 hours to 35,81 hours, with implementation Information Sistem with API Integration, QR Code, and Sign on Glass technology.