

Pengaturan ulang tata letak produk pada gudang barang jadi perusahaan farmasi = Product relayout in pharmaceutical company s warehouse

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Abstrak

[Penelitian ini dilakukan pada gudang perusahaan farmasi yang masih menggunakan sistem manual picking. Salah satu kegiatan utama operasional gudang yang meningkatkan produktivitas suatu perusahaan adalah order picking. Namun, kegiatan order picking pada gudang perusahaan farmasi ini belum optimal. Hal ini dikarenakan tata letak produk pada gudang menggunakan metode randomized storage dan area gudang terbatas. Usaha untuk menyelesaikan permasalahan ini yaitu dengan pengaturan ulang tata letak produk menggunakan metode class based storage dengan analisa EIQ. Tata letak produk diklasifikasikan ke dalam beberapa kelas berdasarkan karakteristik distribusi setiap jenis produk (nilai IK dan IQ). Hasil penelitian ini menunjukkan total jarak tempuh forklif dan waktu yang dibutuhkan untuk kegiatan order picking dengan tata letak usulan berkurang sebesar 34.5 % dari jarak tempuh dan waktu yang dibutuhkan dengan tata letak sebelumnya. This study is at pharmaceutical company's warehouse that has been using manual picking system for its operational. One of the major warehouse operational activity that has big contribute for company's productivity is order picking. In contrast, order picking performance in this pharmaceutical company's warehouse less than optimal. It is because warehouse uses randomized storage for its assignment and warehouse's area is limited. Class based storage assignment using EIQ analysis is one way to solve this problem. Product is classified into several class based on product distribution characteristic (IK and IQ value). The result of this study shows that the travel distance and time that need for order picking by using class based storage assignment 34.5% less than travel distance and time needed by using randomized storage assignment. This study is at pharmaceutical company's warehouse that has been using manual picking system for its operational. One of the major warehouse operational activity that has big contribute for company's productivity is order picking. In contrast, order picking performance in this pharmaceutical company's warehouse less than optimal. It is because warehouse uses randomized storage for its assignment and warehouse's area is limited. Class based storage assignment using EIQ analysis is one way to solve this problem. Product is classified into several class based on product distribution characteristic (IK and IQ value). The result of this study shows that the travel distance and time that need for order picking by using class based storage assignment 34.5% less than travel distance and time needed by using randomized storage assignment. This study is at pharmaceutical company's warehouse that has been using manual picking system for its operational. One of the major warehouse operational activity that has big contribute for company's productivity is order picking. In contrast, order picking performance in this pharmaceutical company's warehouse less than optimal. It is because warehouse uses randomized storage for its assignment and warehouse's area is limited. Class based storage assignment using EIQ analysis is one way to solve this problem. Product is classified into several class based on product distribution characteristic (IK and IQ value). The result of this study shows that the travel distance and time that need for order picking by using class based storage assignment 34.5% less than travel distance and time needed by using randomized storage assignment.]