EVALUASI PENERAPAN PRINSIP *FIRST IN FIRST OUT* DAN *FIRST EXPIRED FIRST OUT* PADA PENYIMPANAN OBAT YANG MENGANDUNG PREKURSOR DI APOTEK SWASTA KOTA BATAM

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ABSTRAK

Penyimpanan obat yang mengandung prekursor harus menerapkan prinsip *First In First Out* (FIFO) dan *First Expired First Out* (FEFO) dengan benar guna mempertahankan mutu dan keamanan obat. Berdasarkan hasil monitoring dan evaluasi Dinas Kesehatan Kota Batam tahun 2024, pencatatan obat masuk dan keluar masih belum terlaksana secara rutin, sementara pengawasan penyimpanan belum berjalan secara optimal. Hasil studi pendahuluan terhadap lima apotek turut menemukan adanya ketidaksesuaian dalam pelaksanaan prinsip FIFO dan FEFO. Hal ini menjadi dasar perlunya dilakukan evaluasi terhadap penerapan kedua prinsip tersebut di apotek swasta Kota Batam. Penelitian ini bertujuan untuk mengetahui tingkat kesesuaian penerapan prinsip FIFO dan FEFO dalam penyimpanan obat yang mengandung prekursor di apotek swasta Kota Batam. Penelitian ini menggunakan metode deskriptif observasional dengan pendekatan *cross-sectional*. Sebanyak 68 apotek dijadikan sampel melalui teknik *proportionate stratified random sampling*. Pengumpulan data dilakukan melalui observasi langsung dengan menggunakan lembar observasi. Hasil penelitian memperlihatkan bahwa penerapan FIFO mencapai tingkat kesesuaian 88,24% dengan kategori sangat baik, sedangkan penerapan FEFO mencapai 85,00% dan juga berada dalam kategori sangat baik. Apotek disarankan untuk terus mempertahankan penerapan FIFO dan FEFO serta melakukan perbaikan pada penataan stok, kejelasan informasi tanggal kedaluwarsa, dan pengawasan akses terhadap tempat penyimpanan obat yang mengandung prekursor.

Kata kunci: FIFO, FEFO, obat prekursor, penyimpanan obat, apotek

EVALUATION OF THE IMPLEMENTATION OF FIFO & FEFO PRINCIPLES IN THE STORAGE OF PRECURSOR-CONTAINING DRUGS IN PRIVATE PHARMACIES IN BATAM CITY

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ABSTRACT

The storage of precursor-containing medicines requires the proper implementation of the First In First Out (FIFO) and First Expired First Out (FEFO) principles to maintain medicine quality and safety. The results of the 2024 monitoring and evaluation conducted by the Batam City Health Office indicated that records of incoming and outgoing medicines were not maintained regularly, while storage supervision remained suboptimal. A preliminary study conducted at five pharmacies also identified discrepancies in the implementation of FIFO and FEFO principles. These findings highlight the need to evaluate the application of both principles in private pharmacies in Batam City. This study aimed to assess the level of FIFO and FEFO implementation in the storage of precursor-containing medicines at private pharmacies in Batam City. A descriptive observational design with a cross-sectional approach was employed. A total of 68 pharmacies were selected using the proportionate stratified random sampling technique. Data were collected through direct observation using an observation checklist. The results showed that FIFO implementation achieved a compliance rate of 88.24%, categorized as very good, while FEFO implementation reached 85.00%, also categorized as very good. Pharmacies are encouraged to maintain the implementation of FIFO and FEFO principles while improving stock arrangement, the visibility of expiration date information, and access control to storage areas for precursor-containing medicines.

Keywords: *FIFO, FEFO, precursor containing medicines, storage, pharmacy*