

ABSTRACT

Al-Afiat Clinic is a place with several medical purposes. For instance, it has inpatient, outpatient, emergency unit and general check-up. Al-Afiat Clinic has more than 350 kind of medicine stock that consists of emergency and non emergency medicine. Basically, this clinic doesn't have a good controlling inventory system. As a result, this clinic experience stock out in pharmacy unit and stockpiling of medicine for quite often, which will influence the total cost inventory.

The emergency medicine is a kind of medicine that has to be available due to its life saving nature which will be helpful in saving human lives on emergency condition. So that, the emergency medicine needs more proper controlling inventory system than the non-emergency medicine. Because of emergency medicine controlling system in Al-Afiat Clinic is limited only for those medicines that consume a great fund to invest; ABC Classification method is the exact method to overcome this situation.

Based on medicine ordering characteristic in every hospital, which is only one supplier is needed to order medicines, the EOQ Joint Replenishment is chosen to require given current situation. EOQ Joint Replenishment is a method to determine the quantity of each order and time to order so that the total inventory cost can be minimized with consideration of ordering expense (mayor and minor ordering cost), saving expense and lead time from supplier. With this method, the quantity size and differ ordering time will be acquired.

EOQ Joint Replenishment is proven in decreasing total inventory cost that Al-Afiat Clinic should take responsible of. With current system this clinic has been using, the total inventory cost is Rp. 2.309.036. However, with EOQ Joint Replenishment it becomes Rp 743.398. As a result, with EOQ Joint Replenishment, this clinic would save 67, 8% of total inventory cost during six months horizon.

Keywords: emergency medicine, ABC, EOQ Joint Replenishment, mayor ordering cost, minor ordering cost, multi item, total inventory cost