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## An Analysis on Drug Management System in Health Center Barrang Lompo Island Sub-district of Sangkarang

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### Abstrak

Management of the drugs in health center is very important to attention, considering of management which is not appropriate with proper procedure will be happen the problem of overlapping drug inefficient usage. This study aimed to determine drug management system in health center of Barrang Lompo Island. Type of study that used in this study was a qualitative study by case study approach. Data collection was done through technique of in-depth interview, direct observation and document review. Information was collected from seven informants, namely five key informants involved in the management of drugs in health centers and two informant receiving health services. To ensure the validity of data which was collected, it was used the technique of triangulation method. The results showed that the management of drug in the pharmaceutical warehouse Barrang Lompo health center has not been effective. This is evident from some of the components input (SDM less, Means mainly warehouse inadequate), process (planning a less precise and storage inadequate), and output (There is still a emptiness of drug, excess drug, there are some drugs still expired and damaged). Conclusion: Based on the results, it can be concluded that the management of drugs in health centers Barrang Lompo Island should be a concern for the implementation of regulation of health minister on Standards of pharmacy services in the center for smooth health services at the health center.

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It is expected that the Barrang Lompo health center more attention to drug management system in the pharmaceutical warehouse ranging from input (SDM one people, facilities (warehouse 3,2 x 3 Meter), process (planning to use only one method) and storage on the shelves not yet given a code), and output (there are some drugs still emptiness, expired and damaged).

**Keywords:** Management of drug; warehouse pharmacy; Health Center.

## **1. Introduction**

Health development is the conduct of the nation's health by Indonesia's efforts to raise awareness, willingness, and ability to live a healthy life for everyone in order to materialize the optimal public health degrees[1]. Health care facility is a place that is used to organize the efforts of the Ministry of health, good promotif, preventive, curative, rehabilitative or undertaken by the Government, local authorities and/or community[2]. Health center is technical unit district health offices/city that is the tools become the spearhead development give direct health services for community in the workplace by giving health services good promotive, preventive, curative and rehabilitatif [3].

Pharmaceutical service in health center are a single entity that cannot be separated from the implementation of health effort, that are important in improving the quality of public health services. Pharmaceutical services in public health have to support functions of health, that is as central insightful health development activist, the community development, and the health service first strata which includes health services individual and public health services [3].

The government efforts to improve the availability of and quality of services medicine at community and sub health service units in the neighborhood health center is providing various the management aspects of medicine include management system drug information. The insufficiency or supply of medicines of excessive is one of the problems in health centers, where the issue is not only influenced by a factor of funds but also affected by management process of the drug, this would affect to the public [4].

Drugs and management of medical equipment is one of the pharmaceutical service, starting from planning, procurement, storage, distribution, recording, reporting and monitoring and evaluation. The aim is to guaranteed availability and affordability of medicine and of medical equipment efficient, effective and rational, increase the competency/workers the pharmacy, manifesting information systems management, and implement control the quality of service [5].

The management of medicine in health center need to be researched because the management of a drug that efficient very much determines the success of health center management as a whole, to avoid the calculation of the needs of the medicine that is accurate and irrational needs to be done so that the management of a drug that in accordance. Guaranteeing the availability of medicines in health services will maintain the image of health services itself, and thus it is very important guarantee the availability of medicines.

Associated research the management of drug ever done resident said that factors management is planning a

drug, procurement, storage, the distribution, and control of affected the availability of if not implemented according to the standard established [6]. Planning inappropriate would cause of medicine even emptiness medicine. Another study ever done said that the success of the management is when they are able to manage medicine efficiently so as to ensure the availability of the right medicine type, correct amount, just quality and timely any time needed [7].

Public health center in barrang lombo island is the segregation of new regions grouped in the sangkarang subdistrict. The subdistrict of sangkarang is a small part of the mayor of makassar government consisting of several urban village area, while the working areas of health center of barrang lombo island covering two urban village located  $\pm 11$  km from the city of makassar, with a broad working area 1,106 km<sup>2</sup>. Considering that public health center barrang lombo islands constituting regions new management district was segregated then a drug that efficient very determine the success of the management health center over all.

Based on the results of observation the beginning and interview with the head health center of barrang lombo island known drug management problems the medicines in health centers of barrang lombo island are current level of the availability of still not as required by health services to be frequent want and void medicine on the other side is also an excess of medicine. To get the service drug needed will take to hospital city or the other.

The barrang lombo island is one of the archipelago of some islands is in indonesian requiring attention related to the management of medicine by regulation of health minister about pharmaceutical service standards at community for the sake of the health services at health center. Based on the study the issue up so the purpose of research is to scrutinize management system of medicine in health center of barrang lombo island.

## **2. Materials and Methods**

### **Location and Research Design**

Research locations barrang lombo island sub-district sangkarang, south sulawesi precisely located in the south side of the strait of makassar. Barrang lombo island is one of the island from sparmonde islands. To take this island needed at least 1 hours using a means of transportation called "jalloro". Jalloro is the only means of transportation used to travel this island. Researchers chose this location as a consideration that this island is one of the islands having geographical far from the city center. This island has a clinic and paramedics (doctor, farmasis and nurse). Not only that the average of people living on this island of low income, work as fishermen and gatherers seaweed. Research method used is qualitative research by approach case study.

### **Population and Sample**

In this research was health center heads, head of the warehouse, nurses, chief paraphernalia, head of business, and the people who are or had been use the services were the two people. The procedure informants the research is using purposif procedure. The determination of the participants who became informants appropriate elected criteria of relevance to problems and research purposes[8].

### **Method of Data Collection**

Data collection through interviews by researchers done with face to face the interview participants and interviewed them directly. interview done with questions unstructured and to openended. Besides studies qualitative documents as papers, agency reported, journals and report and matter of audio and visual photo, videotape or any kind of sound.

### **Data Analysis**

Of the data analysis done with tehnik thematic analysis and collect data from interviews with practitioner and use to recorder cell phone interview later wrote spoken to data in the form of text. Then do encoding from the reading transkrip interview closely with making a record under any questions at an interview to shows a pattern potential, started sorting and drawing up a different code to the themes that considered potential and then said it staple from the data that has been a themes. Then wrote reports thematic analysis of the transcript interview to tell and convincing readers a enough.

## **3. Result**

### **Charateristic of Informants**

Informants major in research is health center heads, head of the warehouse, nurses, chief paraphernalia, and the administrative. While informants equivalent to main informants be people never used and visited the health facilities (health center, hospitals), the people who are and experienced/sick on the barrang lombo island. The number of informants to research has reached seven informants. Informant each given the initials.

### **Planning a drug**

Planning drugs in health center of barrang lombo island done to determine the type of medicines and the number of the drug. The needs of medicine in health center of barrang lombo island planned by the officers drug management periodically any period of the needs namely which are in a year four times carried out receiving medicine, every three months. Planning drugs in health center only is based upon need a previous year (a method of consumption), the number of visits and waiting time medicine (method of epidemiology). It is to be supported by interviews with the warehouse medicine in health center of barrang lombo island, 10 april 2017 as expressed here,

*“planning fulfillment the needs of drug which timely and in accordance with the need help implementation of management distribution of drug with which good and efficient, Informant (SS)”*.

### **Procurement of drug**

Procuring drugs in health center of barrang lombo island done through health department city and warehouse city of makassar by submit LPLPO. This is supported by interviews with the head of health center of barrang

lombo island, 14 april 2017 as expressed here,

*"Procuring medicine done by city health department of makassar, to meet the needs of medicine we have requested through by LPLPO", Informant (DF).*

#### **Storage of drug**

Storage is an activity storing and maintaining by means of a placing of medicines a received at a safe place from theft and physical disorders that can undermine quality drug.

*"Quality inspection medicine in a warehouse health center done by examining the condition of medicine at regular intervals every week, especially the moisture air and ordinary temperatures cause mushrooms, considering a problem power outages for twelve hours a day. To avoid the use of drugs irresponsible in health center the medicine arranged alphabetically, by class therapy, a drug program and consider the expired drugs, any medicine out of a barn noted in cards stock" Informant (ID).*

#### **Distribution of drug**

The distribution of medicine are the activities to distribute drugs from warehouse city of makassar and or from health center to units the available health facilities in health center and to the subsidiary of health center so that everytime available in the number, type, the quality of which is needed economically and effective.

It is to be supported by the results of interviews with the head health center of barrang lombo island, 14 april 2017 as expressed here,

*Drug will our immediate distribution to health service units in health center and at the subsidiary of health center after drugs that we proposed to pharmaceutical warehouses city of makassar we accept and check demand from any unit service is available via LPLPO that was delivered is it right with the number and kind of a drug that needed" Informant (DF).*

#### **The control of drug**

Supplies drug control is one way to ensure the availability of drugs in pharmaceutical warehouse correct amount, exactly the type of, and appropriate quality. The goal is to ensure the smooth management of drug organising in Useful and successfully. Drug control in health center of barrang lombo island done with stock registration card every day and stock opname done each end of the month.

This is supported by the results of interviews with head drug warehouse health center of barrang lombo island, as expressed here,

*"That drug control here done with the cards stock done every day when medicine ejected from warehouse and stock opname done each end of the month with match physical data drugs with cards data stock and cards data (a drug computer data)" Informant (SS).*

#### **4. Discussion**

The research indicated that drugs planning in health center of barrang lompo island only based on the needs of the previous year (method consumption), the number of visits and waiting time drugs and not based on the pattern disease. Procuring drugs in health center of barrang lompo island done through health department city and pharmaceutical warehouses city by asking LPLPO. Medicine stock is based on the alphabet, class therapy, a drug the program and socket FIFO/FEFO. The distribution of medicine done by distributing drugs from pharmaceutical warehouses city and or from health center to units health services in health centers and the (a subsidiary of health center) so every time available the numbers, type, the quality of needed economically and effective. Control of medicine in pharmaceutical warehouses health center of barrang lompo island done through the daily card (medicines card stock) and stock opname every last month.

Research other related drug management as practiced by Athijah inspecting on the plan and management of medicine in the city surabaya year 2010 stated that the majority of the management of medicine at community in a combination consumption and epidemiology. While checks at the time of the drug is part of process procurement and is the procedures to be taken to ensure the availability of that are needed and quality [9].

Procurement is activity intended to realize planning needs. Procurement effective have to ensure the availability of, the number of, and the right time and affordable and in accordance standard. Procurement activity can sustainable started from selection, the determination of the quantities required by, adjustment between the demand for and funds, method selection procurement, election suppliers, the determination of specification contract, monitoring procurement processes, and the payment [10].

Storage of the drug is a the activity of organizing to drugs received in order to be secure (is not lost), avoid the physical damage and chemical and quality still be guaranteed, according to the stipulated terms. The objective is to the quality of drug available at community can keep in accordance with the requirements set. Medicine stock considering matters as follows; a) form and type of preparations, b) stability (temperature, light, moisture), c) easily be exploded / burning; psychotropic drugs and stored in a special cabinet.

From the research conducted by Sheina about the system medicine stock in the pharmaceutical installation hospital Muhammadiyah in yogyakarta seen that the factors affecting medicine stock system good and based on procedure is a factor the classification of the drug, the warehouse and storage room, the equipment, and the human resources (the pharmacy)[11].

The distribution of medicine is the export of medicine evenly and order <sup>3</sup> to meet the needs of sub unit in health center and the health network. The aim is <sup>3</sup> to meet the needs of sub unit in health center area with a kind of work, quality, the number and the right time.

Control supplies drugs are activities to ensure objective in accordance with strategy and program was so there is no stagnant and stockout drugs in health services.

Research conducted by ranie about the determination of the system supplies drugs in pharmacy binjai said that

its drug control efficient that is done by counting the use of drugs on average certain period health center called stock work, optimum stock, safety stock, and lead time[12].

## 5. Conclusions

**1** Based on the research done, can be concluded that the management of drugs in health center of barrang lombo island not effective. This can be seen from several components management drug namely (planning a bad, storage s lack of experience and provision a drug that not realized 100%) and consequently a drug, there is a expiration and damaged. Expected the local community health center of barrang lombo more attention to management systems of medicine in pharmaceutical warehouses by The health ministry's regulation about pharmaceutical service standards at health center for the sake of the treatment at health centers.

## Conflict of Interest

Autors declare no conflict interest

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