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Date of Graduation 12 Hay B.E.2535 (1992)

ABSTRACT

was to analyse the goal, the number exist and the discrepancy

between these two of the whole pharmacy system and individual

system during 1991-2010, thus to obtain the benefit in manpower

planning of the organization concerned. The pharmacy system

consisted of 6 subsystems: hospital, community, manufacturing,

consumer protection mission, educational and pharmaceutical

The objective of this study, Pharmacist manpower planning,

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esis Title Pharmacist Manpower Planning and Management

System Dynamic Approach

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within the Next 20 Years, 1991 - 2010.

The system dynamo modeling technic which provided clear view of changes in each parameter by the time studied was used in this thesis. The dynamo equations were constructed to be the

representative of the systems. The data used was obtained from 2

during the first of February and the 10th. of April 1991. The analysis of data showed that 30 % of the pharmacist were more than 40 years of age which meant in the next 20 years % of the number of today pharmacist would retire. The community , educational and manufacturing pharmacist were the major subsectors of this retirement. The pharmacist demand was the sum of the demand in each subsector. The number of the pharmacists existed could be changed by the number of new pharmacists, lost from death , retire and quit and the change of work area. It was found from the standard run of the system behavior

that: 1. The shortage of pharmacist would end in 1994.

government contract would over the demand in 1992.

2. The number of hospital pharmacist under the program of

sources: secondary and primary data. The first one provided the

data concerning in the supply of pharmacist by the ministry of

university affair. The latter was obtained from the questionaire

and personal interview of 9 specialists performed by the

researcher , thus gave the information of the ratio in choosing

the career , the change work pattern and the distribution of

pharmacist in each subsector by age and sex; also the forcasting

in future demand of pharmacist. The sampling group of the study

was selected by stratified simple random from the pharmacists in

every subsector in the number of 612. The data was collected

5. The pharmacist in consumer protection mission would neet the number demand in 1996.

6. The educational pharmacist was below the number needed. The goal would meet in 2003.

7. The pharmaceutical marketing pharmacist would be far above the goal needed.

The pharmacist student enrollment plan should be adjusted to the number that produce pharmacists according to the demand so as to keep the pharmacist manpower system equilibrium.

6 policy options were suggested and studied in their

3. The community pharmacist would still far beyond the

The manufacturing pharmacist was under the same

humber demanded.

impact to the system :

5. Policy 2 + 3

- Give up the government contract program in 1993
   Give up the government contract program in 1997
   Change the demand of pharmacist in consumer protection
- mission to 5 % peryear.
  4. Policy 1 + 3
  - 6. Give up the new faculty of pharmay plan.

enough for the expansion of demand estimated in this study.

In conclusion, it can be seen that

1. The number of the whole pharmacist in the country was

- 2. The problem was the distribution of individual narmacist in each career.
- The short and long term plan to alleviate the problem ere also mentioned.