

## ANALYSIS OF THE STRUCTURE OF THE LIST OF ANTIBIOTICS USED IN PHONG DIEN DISTRICT HEALTH CENTER IN 2019

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### ABSTRACT

**Background:** Antibiotics administered incorrectly may result in detrimental consequences, such as prolonging treatment duration, causing adverse effects, or even increasing mortality. Similar to surrounding underprivileged urban medical institutions, the Drug and Therapeutics Committee (DTC) at Phong Dien district's health center (PDHC) is still struggling to attain rationality in keeping track of and evaluating hospital medication formularies. It is commonly believed that these lists directly impact the DTC's decisions on drug selection, distribution, and order for supply, as well as other inventory issues such as assuring quality and minimizing extra expenses. **Objectives:** The research aimed to examine the characteristics of the antibiotics list utilized at PDHC in 2019. **Methods:** From January to December 2019, we investigated 99 different medicines from 8 different antibiotic families in retrospective research. The acquired data were analyzed statistically using descriptive analysis. **Results:** Foreign medications accounted for 19.3% of pharmaceutical expenditure, whereas domestic medicine accounted for 80.7%. Regarding route of administration, ratios of oral medicines dominated others in quantity and cost (67.67% and 82.73%, respectively). It also revealed that 97.27% of the inventory budget was spent on generic medications compared to under 3% of brand-name ones. Additionally, single-component products (78.79% of items and 71.65% of total expense) were used more often than those with multi-components.  $\beta$ -lactam was the most widely utilized group among the 8 studied groups, which accounted for 72.61% of the monetary allocation. **Conclusion:** The results of this study showed that the use of antibiotics at the center was relatively adequate and followed the principle of drug consumption by the Ministry of Health (MOH) in drug utilization and prescription of antibiotics.

**Keywords:** structure of the drug list, antibiotics.