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อิทธิพล ของมหาวิทยาลัยมหิดล
COST – EFFECTIVENESS ANALYSIS OF SUCCESSFULLY CONTROLLING BLOOD GLUCOSE IN DIABETIC PATIENTS IN FISCAL YEAR 2010, MEDICAL SERVICE DEPARTMENT, BANGKOK METROPOLITAN ADMINISTRATION

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ABSTRACT

The research was a combination of cross-sectional and retrospective study methods. The objective was to analyze the cost-effectiveness of controlling blood glucose in diabetic patients of the Diabetic Mellitus (DM) Clinic in the outpatient department of Ladkrabung Bangkok Metropolitan Administration Hospital in patients aged 18 years and above. The study included 228 patients who were selected using accidental sampling. In order to analyze the total cost, both provider and patient perspectives were taken into account. The provider costs data was collected from hospital records, while the patient costs data was collected by interview and structured questionnaire. Both cost and outcome data were analyzed using descriptive and analytical statistics. The data were calculated by using a computer software program.

This study revealed that the cost-effectiveness of controlling blood glucose in diabetic patients to check Fasting Blood Sugar (FBS) was 56,806.00 baht, which is higher than the cost of monitoring HbA1c which is 16,896.79 baht. The total costs to check HbA1c in diabetic patients were 4,371.10 baht, which is more than that of FBS at 3,976.42 baht. Provider costs to check FBS were 1,683.85 baht. Patient costs for medical care were 2,885.24 baht to check FBS and 2,093.39 baht to check HbA1c. Non-medical care costs were 68.17 baht and 78.98 baht and opportunity costs were 444.11 baht and 433.52 baht, respectively. The effectiveness of checking HbA1c in diabetic patients was 0.28, which is higher than that of FBS at 0.07.

The expense to check HbA1c is more than that to check FBS, but it better predicts control of blood glucose to reduce complications and severity of blood glucose problems and decreases the cost for both provider and patient. Future studies should be conducted in other hospitals to obtain stronger evidence.

KEY WORDS: COST-EFFECTIVENESS / CONTROL BLOOD GLUCOSE / DIABETIC MELLITUS DISEASES