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## **Analisis Keefektifan Biaya Pengobatan Pasien Diabetes Mellitus Tipe 2 Dengan Komplikasi di RSUP Dr. Kariadi Tahun 2022**

### **ABSTRAK**

**Latar Belakang:** Diabetes Mellitus merupakan penyakit yang bersifat kronis, maka apabila diabaikan dapat menyebabkan komplikasi. Analisis keefektifan biaya merupakan metode analisis dari bidang farmakoekonomi yang membandingkan sumber daya yang digunakan (*input*) dengan konsekuensi dari pelayanan (*output*) dimana rasio terendah merupakan pilihan yang terbaik. Tujuan penelitian ini yaitu biaya pengobatan Diabetes Mellitus tipe 2 dengan komplikasi tiap ruang kelas I,II,III, dan VIP nilai ACER dan ICER, dan obat mana yang memiliki efektivitas paling tinggi.

**Metode:** Penelitian dilakukan secara non eksperimental dengan metode deskriptif. Pengambilan data dilakukan dengan metode total sampling sebanyak 29 pasien. Data yang diambil berupa nomor rekam medis, jenis kelamin, usia dan diagnosis.

**Hasil:** Data hasil penelitian dikelompokkan berdasarkan data karakteristik dan lama perawatan dilakukan analisis untuk mendapatkan terapi yang *cost effective*. Data pasien laki-laki sebanyak 37,94%, perempuan 62,06%. Hasil ACER terendah pada kelas I terapi golongan sulfonilurea. Kelas II terapi kombinasi golongan sulfonilurea dan insulin. Kelas III terapi kombinasi golongan insulin, golongan sulfonilurea dan golongan inhibitor DPP-4. Kelas VIP terapi golongan sulfonilurea.

**Kesimpulan:** Dari hasil penelitian diperoleh biaya pengobatan rawat inap yang paling efektif pada kelas I yaitu golongan sulfonilurea, pada kelas II terapi kombinasi golongan sulfonilurea dan insulin, pada kelas III terapi kombinasi golongan biguanid, sulfonilurea, insulin, pada kelas VIP golongan sulfonilurea.

**Kata Kunci:** Efektivitas, ACER, ICER, Diabetes Mellitus

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**COST-EFFECTIVENESS ANALYSIS OF TREATMENT FOR TYPE 2  
DIABETES MELLITUS WITH COMPLICATIONS AT RSUP Dr.  
KARIADI IN 2022**

**ABSTRACT**

**Background:** Diabetes Mellitus is a chronic disease, so if it is ignored it can cause complications. Cost effectiveness analysis is an analytical method from the pharmacoeconomics field that compares the resources used (input) with the consequences of the service (output) where the lowest ratio is the best choice. The purpose of this study is the cost of treating diabetes mellitus type 2 with complications in each class I, II, III, and VIP rooms with ACER and ICER values, and which drug has the highest effectiveness.

**Objectives:** Cost of treatment for Diabetes Mellitus type 2 with complications, ACER and ICER values, and which drug has the highest effectiveness.

**Methods:** The research was conducted in a non-experimental manner with a descriptive method. Data were collected using a total sampling method of 29 patients. The data taken in the form of medical record numbers, gender, age and diagnosis.

**Results:** The data from the research were grouped based on the characteristics and length of treatment. An analysis was carried out to obtain a cost-effective therapy. Male patient data as much as 37.94%, 62,06% female. The lowest ACER results were in class I sulfonylurea therapy. Class II combination therapy with sulfonylureas and insulin. Class III combination therapy with insulin, sulfonylureas and DPP-4 inhibitors. VIP class sulfonylurea group therapy.

**Conclusion:** From the results of the study, it was found that the most effective inpatient treatment costs in class I, namely the sulfonylurea group, in class II combination therapy with sulfonylureas and insulin, in class III combination therapy with biguanides, sulfonylureas, insulin, in VIP class, sulfonylureas.

**Keywords:** Effectiveness, ACER, ICER, Diabetes Mellitus