

ABSTRACT

ANTIHYPERTENSIVE POTENTIAL DRUG INTERACTION

STUDY

(Studies Conducted at Buduran Health Center)

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Hypertension according to the American Society of Hypertension (ASH) is a syndrome or a collection of progressive cardiovascular symptoms as a result of other complex and interrelated conditions, while according to the Joint National Committee VII (JNC VII) argues that hypertension is an increase in blood pressure above 140/90 mmHg. The research conducted is a non-experimental study with a descriptive analysis design in which data collection is retrospective. Samples in this study were taken using the random sampling method where drug interactions will be analyzed using the Drugs.com application. The results showed that the total number of patients at the Buduran Health Center who were prescribed antihypertensive drugs in October-December 2022 was 509 patients, but based on the sampling technique using the random sampling method, the patient prescriptions observed were only 84 prescriptions. Based on patient characteristics data, it is known that the number of male patients is 27 people (32%) and 57 female patients (68%). In terms of age, the largest number of patients were aged 29-59 years as many as 51 patients (61%). In this study, 65 prescriptions (77%) were found to have potential drug interactions out of a total of 84 prescriptions observed. Based on the mechanism of drug interaction, it is known that the prescription with the most drug interaction mechanism is the pharmacodynamic drug interaction mechanism, which is 80 prescriptions (75%). Based on the severity, drug interactions with the highest number of cases were at the moderate level of 74 prescriptions (70%). The high incidence of drug interactions above 50% in the study results needs the attention of pharmaceutical personnel. To increase the success of the main objective of pharmaceutical care, which is to minimize risks to patients, it is hoped that pharmaceutical technicians can work together with pharmacists to minimize the occurrence of interactions that can harm patients.

Keywords: Hypertension, Antihypertensive, Prescription, Drug Interaction